

# कार्य योजना ACTION PLAN 2023

स.व.पटेल कृषि एवं प्रौद्योगिकी विवि, मेरठ  
के कृषि विज्ञान केंद्र  
KVKs OF SVPUIAT, Meerut



भाकृअनुप-कृषि प्रौद्योगिकी अनुप्रयोग अनुसंधान संस्थान (अटारी),  
कानपुर  
ICAR-Agricultural Technology Application Research Institute (ATARI)  
Kanpur - 208002



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**Published**

2022

**Citation**

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***Action Plan (2023)***

ICAR-Agricultural Technology Application Research Institute (ATARI)  
Kanpur



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## **Published by**

Director, ICAR-ATARI, Kanpur

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# INTRODUCTION

The Indian Council of Agricultural Research (ICAR) is an autonomous organisation under the Department of Agricultural Research & Education (DARE), Ministry of Agriculture and Farmers Welfare, Government of India. Agricultural Extension Division is one of the Subject Matter Division where the major activities are of Assessment and Demonstration of Technology/Products through a network of 731 Krishi Vigyan Kendras (KVKs).

ICAR-Agricultural Technology Application Research Institute (ATARI), Kanpur is one of the 11 ICAR-ATARIs formerly known as Zonal Project Directorates (ZPDs) and the erstwhile Zonal Coordination Unit (ZCU) functioning under Division of Agricultural Extension established in the year 1979. ICAR has established a vast network of KVKs all over the country under the administrative control of various ICAR institutes, State Agricultural Universities (SAUs), State Department of Agriculture, Non-Governmental Organisations (NGOs) and other institutes for implementing the central governmental projects/schemes. In the Zone, 3 Agricultural Technology Information Centres (ATICs) are working for delivering the “Single Window” delivery system. Since, Zonal Project Directorate has been elevated as ICAR-Agricultural Technology Application Research Institute (ATARI).

## **The major functions of the ICAR-ATARI, Kanpur are:**

Planning, monitoring and reviewing of KVK activities in the zone; to identify, prioritize and implement various activities related to technology integration and dissemination

Coordinating with SAUs, ICAR institutes/organizations, line departments and voluntary organizations in the zone for implementation of KVK mandated activities and

Facilitating financial and infrastructural support to KVKs for effective functioning.

## **KVK and its mandate**

In Zone-III, 89 KVKs have been established by the ICAR in Uttar Pradesh across 75 districts.

The mandate of KVK is – Technology Assessment and Demonstration for its Application and Capacity Development (TADA-CD).

Besides, KVKs also act to

- Provide farm advisories using ICT and other media means on varied subjects of interest to farmers.
- Produce quality technological products (seed, planting material, bio-agents, livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programmes within the mandate of KVK.

## AGRO-CLIMATIC ZONES

Uttar Pradesh is divided into 9 agro climatic zones (Bhabhar and Tarai, Western Plain, Mid Western Plain, South Western Semi Arid, Central Plain, Bundelkhand, North Eastern Plain, Eastern Plain and Vindhyan Zone), depicted as in the following figure -



### Distribution of 88 KVKs in U.P.

<span style="color: green;">◆</span>	SAU KVKs	67
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">○</span>	ICAR KVKs	07
<span style="background-color: yellow; border-radius: 50%; padding: 2px;">●</span>	NGO KVKs	12
<span style="background-color: blue; border-radius: 50%; padding: 2px;">■</span>	Educational KVKs	03
	<b>Total</b>	<b>89</b>

**Note:** Districts with two KVKs : Azamgarh, Gonda, Bahraich, Sultanpur, Jaunpur, Ghazipur, Budaun, Moradabad, Muzaffarnagar, Lakhimpur Kheri, Hardoi, Sitapur, Gorakhpur, Prayagraj

## KVKS AT A GLANCE

### KVKS in Uttar Pradesh at a Glance

No. of Districts in U.P.	No. of KVKS under				Total KVKS
	SAU	ICAR	NGO	Other (Educational)	
75	67	7	12	3	89

### Host wise list of KVKS with their establishment year

S.N.	Name of the KVK	Year of establishment	S.No.	Name of the KVK	Year of establishment
<b>NDUA&amp;T, Faizabad (25)</b>					
1	Bahraich	1983	14	Chandauli	2005
2	Ballia	1989	15	Jaunpur-I	2005
3	Basti	1984	16	SantKabir Nagar	2009
4	Mau	1989	17	Ambedkar Nagar	2010
5	Varanasi	1989	18	Amethi	2018
6	Siddharthnagar	1992	19	Bahraich-II	2018
7	Faizabad	2004	20	Gonda-II	2018
8	Gorakhpur	2004	21	Sultanpur-II	2018
9	Maharajganj	2004	22	Jaunpur-II	2018
10	Sonbhadra	2004	23	Ghazipur-II	2018
11	Azamgarh-I	2004	24	Shravasti	2020
12	Barabanki	2004	25	Azamgarh-II	2021
13	Bairampur	2005			
<b>CSAUA&amp;T, Kanpur (15)</b>					
26	Raebareli	1984	33	Firozabad	2004
27	Fatehpur	1989	34	Lakhimpur Kheri	2005
28	Aligarh	1992	35	Farukhabad	2005
29	Kannauj	2004	36	Hardoi-I	2005
30	Etawah	2004	37	Mahamaya Nagar	2009
31	Mainpuri	2004	38	Kasganj	2018
32	Kanpur Dehat	2004	39	Auraiya	2007
			40	Raebareli-II	2021
<b>BUAT, Banda (7)</b>					
41	Jhansi	1984	45	Lalitpur	2005
42	Mahoba	2004	46	Banda	2007
43	Hamirpur	2005	47	Prayagraj-II	2021
44	Jalaun	2005			
<b>SVPUA&amp;T, Meerut (20)</b>					
48	Bijnor	1992	58	Moradabad-I	2005
49	Rampur	1992	59	Gautam Budha Nagar	2005
50	Badaun-I	1992	60	Bulandshahar	2004
51	Saharanpur	1992	61	Badaun-II	2018
52	Ghaziabad	1992	62	Sambhal	2018
53	Sahajahanpur	1994	63	Shamli	2018
54	Meerut	1994	64	Amroha	2018
55	Muzaffarnagar-I	1994	65	Hapur	2018
56	Pilibhit	1998	66	Muzaffarnagar-II	2019
57	Baghpat	2004	67	Moradabad-II	2020
<b>ICAR KVKS (7)</b>					
<b>Indian Veterinary Research Institute, Bareilly</b>					
68	Bareilly	1985			
<b>Indian Institute of Sugarcane Research, Lucknow</b>					
69	Lucknow	1994	70	Lakhimpur Kheri-II	2019
<b>Indian Institute of Vegetables Research, Varanasi</b>					
71	Kushinagar	2005	73	St. Ravidas Nagar	2008
72	Deoria	2009			
<b>ICAR-Central Soil Salinity Research Institute, Karnal</b>					
74	Hardoi-II	2018			
<b>NGO KVKS (12)</b>					
<b>Kamla Nehru Memorial Trust, Sultanpur</b>					
75	Sultanpur	1976			
<b>RBS College, Agra</b>					
76	Etah	1992	77	Agra	2002
<b>Deendayal Research Institute, Gonda</b>					
78	Gonda-I	1989	79	Chitrakoot	1992
<b>Raja Avadesh Singh Memorial Society, Pratargarh</b>					
80	Pratapgarh	1999			
<b>Kunwar Ram Bux Singh Educational Society, Lucknow</b>					
81	Unnao	1999			
<b>Post Graduate College, Gazipur</b>					
82	Gazipur	2002			
<b>Manav Vikas Evam Seva Sansthan, Lucknow</b>					
83	Sitapur-I	2005			
<b>Dr.Bhimrao Ambedkar Welfare Society, Allahabad</b>					
84	Kaushambi	2006			
<b>RanvirRananjay Degree College Association, Sultanpur</b>					
85	Sitapur-II	2011			
<b>Guru Gorakshnath Sewa Sansthan</b>					
86	Gorakhpur-II	2016			
<b>Educational KVKS (3)</b>					
<b>U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwa Vidyalaya Evam Go Anusandhan Sansthan, Mathura</b>					
87	Mathura	1984			
<b>SHUATS, Allahabad</b>					
88	Allahabad	1992			
<b>BHU, Varanasi</b>					
89	Mirzapur	1984			

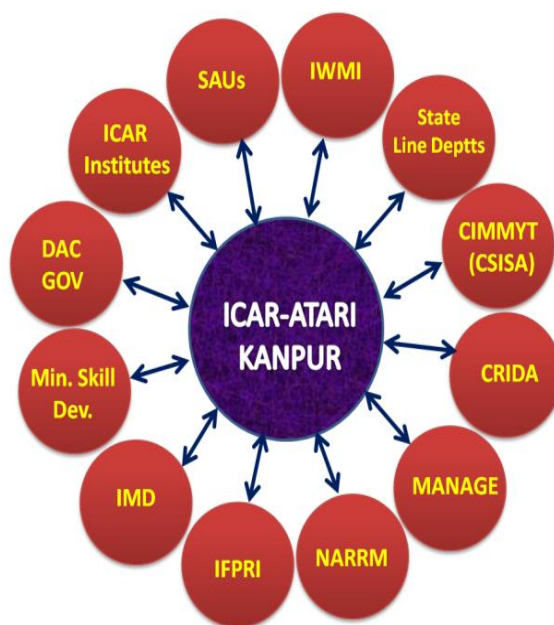
## Projects and Special programmes

This institute is handling 13 different projects and special programmes. These project/special programmes are being funded by ICAR, Government of India funded and Institute funded projects. A brief details and its KVKs/Institutes are given below -

S.No.	Programme Name & no. of KVKs implementing	Number of KVKs/Institutes
1.	NICRA (National Innovation on Climate Resilient Agriculture)	13 KVKs
2.	ARYA (Attracting & Retaining of Youth in Agriculture)	10 KVKs
3.	TSP (Tribal Sub Plan)/ KSHAMTA (Knowledge Systems and Home Based Agricultural Management in Tribal Areas)	8 KVKs
5.	CRM (Crop Residue Management)	23 KVKs
6.	ASCI (Agriculture Skill Council of India)	36 KVKs and 6 ICAR Instt.
7.	Pulses Seed Hub	8 KVKs
8.	Aspirational District Scheme	8 KVKs
9.	NARI programme (Nutrition-sensitive Agricultural Resources and Innovation)	All 89 KVKs
10.	SCSP (Schedule Caste Sub Plan)	10 KVKs
11.	SBA (Swachha Bharat Abhiyaan)	All 89 KVKs
12.	Farmers FIRST (Farm, Innovations, Resources, Science & Technology)	7 ICAR Institutes
13.	MGMG (Mera Gaon Mera Gaurav)	13 ICAR Institutes

## Functional Linkage with State, National & International Organizations

1. SAUs (SVPUAT, CSAUAT, NDUAT& BUAT) linked for technological backstopping to KVKs of Uttar Pradesh
2. Linkage with MANAGE Hyderabad for Agri-business & Agri Clinic Scheme & also knowledge up gradation of KVK staff in ICT.
3. Interface on KVK-ATMA linkage held at State level with Principal Secretary Agriculture & Director Agriculture for effective linkage.
4. IIVR, Varanasi for providing suitable technologies for vegetable production.
5. Linkage with CRIDA, Hyderabad for promoting climate resilient technologies in 13 districts of U.P.
6. Fodder development programme initiated in collaboration with IGFR, Jhansi.
7. Linkage with National Rain fed Area Authority for development of Bundelkhand region.
8. Senior level interactions and meetings organized with line department officials for better convergence & linkage.





# **ACTION PLAN**

*January – December, 2023*



**KRISHI VIGYAN KENDRA  
AMROHA**

# DETAILS OF ACTION PLAN OF KVKs DURING 2023

(1<sup>st</sup> January, 2023 to 31<sup>st</sup> December, 2023)

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone	E mail	Website
Krishi Vigyan Kendra Gajraula, Amroha (U.P.)	-	amrohakvk@gmail.com	-

### 1.2 .a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website
	Office	FAX		
Directorate of Extension SVBPUA&T, Meerut-250110 (UP)	0121-2888540 2888511	0121- 2888540	deesvpuat2014@gmail.com	

1.2.b. Status of KVK website : Yes/No - Under Progress

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :

1.2.d. Status of ICT lab at your KVK : No.








### 1.3. Name of the Programme Coordinator with phone & mobile no.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Arvind Kumar Mishra		9719353536	amrohakvk@gmail.com

1.4. Year of sanction: 2018 (ICAR, Letter No.A.Extn.7/4/2016-AE-II 08June 2018)



### 1.5. Staff Position (as on 30 Sept. 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OB C/ Others)	Mobile No.	Email id	Please attach recent photograph
1.	Officer In-Charge	Dr. Arvind Kumar Mishra	Officer In- Charge	Agronomy	15600-39100	8000	101100	20.7.2020	Permanent	Gen.	9719353536	<a href="mailto:amrohakvk@gmail.com">amrohakvk@gmail.com</a>	
2.	Subject Matter Specialist	Dr. Sheesh Pal Singh	SMS/Asst. Prof.	Horticulture	15600-39100	7000	98300	01.2.2020	Permanent	SC.	9410849455	<a href="mailto:singhsp14@gmail.com">singhsp14@gmail.com</a>	
3.	Subject Matter Specialist	Dr. Amit Kumar	SMS/ T6	Plant Breeding	15600-39100	5400	56100	02.07.2023	Permanent	Gen.	6395472664	<a href="mailto:tomaramit2016@gmail.com">tomaramit2016@gmail.com</a>	
4.	Subject Matter Specialist	Dr. Hadi Husain Khan	SMS/ T6	Plant Protection	15600-39100	5400	56100	05.07.2023	Permanent	Gen.	9140850518	<a href="mailto:hhkhan.amu.786@gmail.com">hhkhan.amu.786@gmail.com</a>	
5.	Subject Matter Specialist	Dr. Raushan Kumar Singh	SMS/ T6	Livestock Production	15600-39100	5400	56100	12.07.2023	Permanent	Gen.	7206347151	<a href="mailto:raushansingh704@gmail.com">raushansingh704@gmail.com</a>	
6.	Subject Matter Specialist	Miss. Prachi Patel	SMS/ T6	Home Science	15600-39100	5400	56100	12.07.2023	Permanent	OBC	7905764931	<a href="mailto:prachipatel709@gmail.com">prachipatel709@gmail.com</a>	
7.	Farm Manager	Dr. Ravindra Pal Singh	Farm Manager	Ag. Extension	55200	-	55200	10-03-2018	Permanent	SC.	9412405845	<a href="mailto:rpskvkbsr@gmail.com">rpskvkbsr@gmail.com</a>	

8.	Stenographer/ computer operator	Sh. Yogendra Kumar Sharma	Stenographer/ computer operator		42800		42800	01-07-2023	Permanent	Gen	9456687355		
9.	Driver	Sh. Awadesh Kumar Tyagi	Driver		37000		37000	09-2021	Permanent	Gen	8010087888		
10.	Attendant	Sh. Ramkumar	Attendant		33300		33300	02-07-2023	Permanent	SC	9897515299		

**1.6. Total land with KVK (in ha): 12.00**

S.No.	Item	Area (ha.)
1.	Under Buildings	1.40
2.	Under Demonstration Units	0.20
3.	Under Crops	9.50
4.	Pond Under MENREGA	0.20
5.	Others (specify) Old Farm Building (Abounded)	0.70
<b>Total</b>		<b>12.0</b>

**A) Buildings-**

S. No	Name of building	Source of funding	Stage Complete		
			Completion Date	Plinth area (Sq.M)	Expenditure (Rs. Lakh)
1.	Administrative Building	ICAR	Under construction		134.0
2.	Farmers Hostel				-
3.	Staff Quarter(6)				-
4.	Demonstration Units (2)				-
5.	Fencing				-
6.	Rain Water harvesting system				-
7.	Threshing floor				-
8.	Farm go down				-

**B) Vehicles - N.A**

Type of vehicle	Year of purchase	Cost (Rs.)	Total Kms. Run	Present status
Bolero	March,2022	7.70	9500	Good
Tractor	-			
Motar cycle	-			
Bicycle	-			
Motar cycle	-			

**C) Equipments & AV aids - N.A**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer with printer	March 2022	80.00	Good

**1.8 A). Details of SAC meetings to be conducted in the year-2021**

Sl.No.	Date
1.	18.10.2021

**2 DETAILS OF DISTRICT**

**2.1 Major Farming Systems/Enterprises (based on the analysis made by the KVK)**

S.No.	Farming system/enterprises
1.	Major crops – Paddy, wheat, mustard, sugarcane, Aehar, Urd, potato, Cabbage & Chilly
2.	Crop rotation – Rice- sugarcane, Rice- wheat, urd-mustard-Cabbage, Potato-Maize, Urd – Wheat-Jowar (Fodder).
3.	Agriculture + Hort. + Livestock
4.	Crop+ Dairy +Horticulture+ Bee keeping +Poltry/Fishries/Mushroom.Vermi compost

## 2.2 Description of Agro-Climatic Zone & Major Agro Ecological Situations (based on soil and topography)

S.No.	Agro-climatic Zone	Characteristics	Agro-ecological situation	Characteristics
1	I- Central western plain zone of the district	-Loam and clay loam with high fertility - medium rainfall	Rice, wheat, Cabbage, sugarcane, chili, cauliflower, cabbage, mango, guava, buffalo, cows	Paddy, wheat, sugarcane+ Poplar+ A.H. (Cow, buffalo)
2	II. Central western Plain zone/ Central east southern region of the district	-Sandy loam to loam soil of medium fertility - medium rainfall	Rice, wheat, mentha, sugarcane, mustard as well as vegetables (pea, Cabbage, chili, tomato, potato) and mango fruit, buffalo, cows	Paddy, wheat, potato, sugarcane, Cabbage, mustard based systems + horticulture + A.H.
3	III Central western plain zone/ central region of the district	-Sandy loam to loam and clay soil of medium fertility - medium rainfall	Rice, wheat, Cabbage, sugarcane, potato, guava, mango, poplar etc.	Paddy, wheat, sugarcane, Cabbage based systems + poplar + A.H.+ Hort.

### a) Soil Types

S. No	Soil type	Characteristics				Area in (ha)
		pH	Fertility (N P K)			
	Clay	7.50	M	L	M	
	Loam	7.65	M	L	M	
	Sandy loam	7.65	M	L	M	

## 2.4. Area, Production and Productivity of Major Crops Cultivated in the District (2019-20) (Data As on district Statistics report)

### A. FIELD CROPS INCLUDING OIL SEEDS AND PULSES

S. No	Crop	Area (ha)	Production (MT)	Productivity (Qtl /ha)
1.	Sugarcane	71782	4359177.00	607.28
2.	Wheat	42279	187000.00	44.23
3.	Paddy (Rice)	28458	56667.00	29.33
4.	Mustard	2404	2902.00	12.07
5.	Bajra	4061.00	4239.68	10.44
6.	Maize	2319.00	4149.00	18.81
7.	Urd	3831	3662	09.56
8.	Moong	13.00	05.00	04.14
<b>B</b>	<b>VEGETABLES</b>			
1.	Potato	2267	47795	210.83

### 2.5. Weather data

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
		Maximum	Minimum	

## Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Cross bred Cow</i>	17000.00		
<i>Indigeneous Cow</i>	130000.00		
<b>Buffalo</b>	371000.00		
<b>Sheep</b>	2000.00		
<b>Goats</b>	56000.00		

\*Statistical report

### 2.7 Details of Operational area / Villages

S. No.	Taluk/Village	Name of block	Major crops & enterprises	Major problem identified	Identified thrust area
1		Amroha	Paddy, Wheat, Sugarcane Pea, Mustard, Poplar, Dairy	Low Productivity of paddy, wheat, mustard, urd etc. The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely.	Diversification in agriculture Lack of high yielding varieties. Less availability of plant protection measures.
2		Joya	Paddy, Wheat, Sugarcane Banana, Mustard, Poplar, Dairy	Low Productivity of paddy, wheat, mustard, urd etc. The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely. Low yield of paddy, wheat, mentha & mustard	Diversification in agriculture Lack of high yielding varieties. Less availability of plant protection measures. Heavy infestation of weeds.
3		Dhamora	Paddy, Wheat, Sugarcane Banana, Mustard, Dairy, Chilli, bottle guard, colocacia	Poor milk production and infertility in animals. Lack of knowledge of quality planting material and production technology in horticultural crops. Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture. Use of improved variety and IPM, ICM. Heavy infestation of weeds.
4		Hasanpur	Paddy, Wheat, Sugarcane Papaya, Mustard, Poplar, Dairy	Use of local varieties of different crops by the farmers. Pest problems Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture. Use of improved variety and IPM, ICM. Heavy infestation of weeds.

5.		Gajraula	Paddy, Wheat, Sugarcane Papaya, Mustard, Poplar, Dairy	Use of local varieties of different crops by the farmers. Pest problems Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture. Use of improved variety and IPM, ICM. Heavy infestation of weeds.
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### 2.7 Priority thrust areas

S.N.	Crop/ Enterprise	Thrust area
1.	Rice/Wheat	Integrated plant nutrient management in rice -wheat cropping.
2.	Rice/Wheat	Integrated weed management in rice -wheat cropping
3.	Pulses	Enhancing the area under Kharif & Rabi pulses
4.	Oil seeds	Enhancing the area under Kharif & Rabi oil seeds.
5.	Cereals/Pulses/ Oilseeds	IPM in crops
6.	Cereals/Pulses/ Oilseeds	Promotion of new released varieties.
7.	Seed production	Promotion of seed production in different crops.
8.	Mango	Rejuvenation of old mango orchards
9.	Guava	Management of Guava orchards.
10.	Vegetables	Promotion of organic farming in vegetables.
11.	Floriculture	Promotion of income generating crops.
12.	Bee-keeping	Popularization of Bee-keeping
13.	Vermi compost	Popularization of Vermi composting
14.	Women empowerment	No income generation
15.	Nutrition garden	Low nutrient – rich food

## 2. TECHNICAL PROGRAMME

### A. Details of Targeted Mandatory Activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
<b>06</b>	<b>30</b>	<b>26.50</b>	<b>100</b>

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
<b>69</b>	<b>1196</b>	<b>365</b>	<b>4728</b>

Seed Production (Qtl.)	Planting material (Nos.)	Chicks prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
<b>300</b>	<b>25000</b>		

### 3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Crop Production	Sugarcane	Low yield and return due to late and sole planting of sugarcane	Economy assessment of different intercrops with sugarcane	-	Integrated crop management	Seed production techniques	OFT, Training	Nutrients
2	Crop Management	OKRA	Low production of Okra	Assessment of Okra Variety in relation to yield and resistance to YVMV	-	Production of low value and high volume crops	Production techniques of off season	OFT and Training	Seed
3	Crop Production	Wheat	Low yield due to old variety which sustainable for yellow rust	Assessment of New high yielding variety of wheat	Balance fertilization through water soluble fertilizer	Weed management	-	OFT, FLD and Training	Seed, Weedicide and fertilizer
4	Crop Production	Pigeon pea	Low yield of pigeon pea and late sowing of wheat	Evaluation of different sort duration variety of pigeon pea for their suitability timely wheat sowing	-	Integrated crop management	-	OFT and Training	Seed, fungicide
5	Poultry management	Backyard Poultry	Enhance socio-economic status and coping malnutrition	Poor Socio-economic status malnutrition	-	Poultry management	Backyard poultry management	OFT and Training	Chicks
6	House hold food security	Seasonal Vegetable	Enhancing household food security through nutritional garden	Malnutrition	House hold food security by kitchen gardenin g	Value addition	House hold food security	OFT, FLD and Training	Mini kit of vegetable
7	RCT	Sugarcane	Method for planting of Sugarcane	Wrong method of planting	-	Plugging implements and its maintenance	Use of lazer laveller	OFT and Training	Hired lazer laveller

8	RCT	Wheat	Method of sowing of wheat	Wrong method of sowing	Seed drill cum/zero fertilizer seed drill	Use of Seed drill for timely sown	-	OFT and Training	Hired seed/fertilizer drill
9	Production and management technology	Cauliflower	Evaluation of high yielding Varieties of cauliflower	Loose head & Low Productivity of cauliflower	Balance use of fertilizer	-	-	FLD and OFT	Seeds
10	Production management	Urd	Assessment of Nutritional requirement in Urd Crop	Low yield due to imbalance or no use of nutrient	Improved variety of seeds	Production techniques of Pulses	Safe Storage of Pulses	OFT, FLD and Training	Seed and weedicide
11	Integrated pest management	Okra	Effective Management of fruit borer	Low Productivity of Okra	-	Nursery management	Grading and packing of okra	OFT and Training	Insecticide
12	Weed management	Black Gram	Effective weed management in black gram	Low yield due to high infestation of weeds during kharif	Improved variety seed and post emergence weedicide	-	IPM modules for production management	OFT, FLD and Training	Seed and weedicide
13	ICM	Mustard	Low yield of Mustard	-	Line sowing, improved variety and Sulphur application	Integrated crop management	Package and practices for hired production of Mustard	OFT and Training	Seed and Sulphur
14	Weed Management	Paddy	Low yield of Paddy due to more infestation of Weed	-	Weed control through post emergence weedicide	Weed management	-	FLD and Training	Weedicide
15	INM	Paddy	Imbalance use of fertilizer	-	Response of Paddy to secondary and micro nutrients	Integrated crop management	Role of Micro nutrients in Paddy Crops	FLD and Training	NPK Zn B Fe
17	Varietal performance	Chaina Cabbage	Low yield of Chaina Cabbage	-	Use of high yielding variety	Production of exotic vegetable crops	-	FLD and Training	Seeds



18	Varietals performance	Bottle guard	Use of Poor variety of Bottle Guard	-	Use of high yielding variety of Bottel Guard	-	-	FLD	Seeds
19	Varietals performance	Chrysanthemum	Poor variety used by farmer	-	Use of high yielding variety of Chrysanthemum	Production and Marketing flowers	-	FLD and Training	Seeds
29	Feed and Fodder technology	Barseem	Use of Local variety	-	Use of improved variety of Barseem	Fodder production techniques	Green fodder production techniques in whole year	FLD and Training	Seed/Planting material
30	Feed and Fodder technology	Oat	Use of Local variety	-	Use of improved variety of Oat	-	-	FLD	Seed/Planting material
31	IPM	Paddy	Less use of insecticide against stem borer	-	Use of IPM modules	-	Role of IPM for Eco-friendly	FLD and Training	Insecticide
32	IDM	Wheat	More infestation of Yellow rust in wheat	-	Seed treatment with fungicide	Integrated diseases management	-	FLD and Training	Fungicide
33	RCT	Potato	Use of manual method of Potato sowing	-	Demo. Of potato planter for RCT	Ploughing implements and its managements	Planting technique of potato by potato planter	FLD and Training	Hired Potato planter
34	RCT	Paddy	Use of manual sprayer for spray of insecticide	-	Use of Power spray for spraying of insecticide	-	Use of Power spray and its maintenance	FLD and Training	Hired Power spray
35	Dairy management	Buffalo	Common problem of Mastitis	-	Use of Mastitis kit	Disease management	Preventing measure for control of Mastitis	FLD and Training	Mastitis kit
36	Animal Nutrition Management	Buffalo	Less lactation period due to not use of mineral mixture	-	Use of mineral mixture	Feed and fodder management	Role of mineral mixture for control of sterility problem	FLD and Training	Mineral mixture

### 3.1 Technologies to be Assessed and Refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	Paddy & Wheat,	-	-		Tomato, Bitter gourd & Okra					05
Integrated Crop Management				Sugarcane						01
<b>TOTAL</b>										<b>06</b>

### B. Details of On Farm Trial

#### Crop Production

OFT- 01

(Kharif-2023)

<b>Crop /Enterprise</b>	<b>Paddy</b>
<b>Title of OFT</b>	<b>Weed management in paddy crop.</b>
<b>Problem diagnosed</b>	Low yield of paddy due to heavy weed infestation.
<b>Farming situation</b>	Irrigated
<b>Farmer's Practice</b>	Pusa basmati- 1509 / As per Availability
<b>Details of technology selected for assessment/ refinement</b>	<b>T1 :- Farmers Practice (Bishparybac sodium)</b> <b>T2:- Bisprybac sodium 10% @ 200-250ml /ha +( Chlorimuron Ethyl 10% +Metsulfuron methyl 10%) @ 20 gram / ha.</b>
<b>Source of Technology</b>	IARI, New Delhi
<b>No. of Farmers</b>	15
<b>Critical Input</b>	Weedicide
<b>Performance indicators</b>	
<b>a)Technical</b>	1. No. of effective Tiller/ Sqm 2. Yield(q/ha)
<b>b) Economic</b>	1. Cost of cultivation 2. Net return 3. C:B Ratio
<b>c)Social</b>	1. Adoptability of technology.
<b>Total Cost</b>	<b>Rs. 10000.00</b>

OFT:- 02

(Rabi -2023-24)

<b>Crop/ Enterprises</b>	Sugarcane
<b>Title of OFT</b>	<b>To assessment of intercropping of garlic with Autumn Sugarcane .</b>
<b>Problem diagnosed</b>	Low income due to sole crop of sugarcane.
<b>Farming Situation</b>	Irrigated
<b>Production System and thematic area</b>	Intercropping
<b>Farmers Practice</b>	Sugarcane alone
<b>Details of technology selected for assessment/ refinement</b>	T1 : Sugarcane alone T2 : Sugarcane+ Garlic
<b>Source of technology</b>	IISR, Lucknow & SVPUA&T, Meerut
<b>No. of Farmers</b>	05
<b>Critical Inputs</b>	Garlic seed
<b>Performance indicator</b>	
<b>a) Technical</b>	1. No tillers (main crop) 2. Cane yield (q/ha) , 3. intercrop Yield (q/ha) & Equivalent yield
<b>b) Economic</b>	1. Cost of cultivation 2. Net return 3. C:B Ratio
<b>c) Social</b>	Adoptability of technology.
<b>Total Cost</b>	<b>Rs. 5000.00</b>

**OFT:- 03****(Rabi -2023-24)**

<b>Crop /Enterprise</b>	<b>Wheat</b>
<b>Title of OFT</b>	<b>Weed management in timely sown wheat crop.</b>
<b>Problem diagnosed</b>	Low yield of <b>wheat</b> due to heavy weed infestation.
<b>Farming situation</b>	Irrigated
<b>Farmer's Practice</b>	HD-3086 / As per Availability
<b>Details of technology selected for assessment/ refinement</b>	<b>T1 :- Farmers Practice (Bishparybac sodium)</b> <b>T2:- Clodinofop Propargyl 9% + Metribuzin20% WP</b> (@ 600 gram/ha.
<b>Source of Technology</b>	IARI, New Delhi
<b>No. of Farmers</b>	15
<b>Critical Input</b>	Weedicide
<b>Performance indicators</b>	
<b>a)Technical</b>	1. No. of effective Tiller/ Sqm 2. Yield(q/ha)
<b>b) Economic</b>	1. Cost of cultivation 2. Net return 3. C:B Ratio
<b>c)Social</b>	1. Adoptability of technology.
<b>Total Cost</b>	<b>Rs. 10000.00</b>

**OFT- 04 (Plant Breeding)****(Kharif-2023)**

<b>Crop /Enterprise</b>	<b>Paddy</b>
<b>Title of OFT</b>	Assessment of new high yielding basmati rice variety & their characterization.
<b>Problem diagnosed</b>	Low yield of paddy due to old variety.
<b>Farming situation</b>	Irrigated
<b>Farmer's Practice</b>	Pusa basmati- 1121 and 1509
<b>Details of technology selected for assessment/ refinement</b>	<b>T1 :- Farmers Practice (Pusa-1121)</b> <b>T2:- P B - 1718</b>
<b>Source of Technology</b>	IARI, New Delhi
<b>No. of Farmers</b>	08
<b>Critical Input</b>	Seed
<b>Performance indicators</b>	
<b>a)Technical</b>	1. No. of effective Tiller/ Sqm 2. Yield(q/ha)
<b>b) Economic</b>	1. Cost of cultivation 2. Net return 3. C:B Ratio
<b>c)Social</b>	1. Adoptability of technology.
<b>Total Cost</b>	<b>Rs. 4500.00</b>

**OFT – 5 (Plant Breeding)****(Rabi 2023-24)**

<b>Particulars</b>	<b>Contents</b>
<b>Crop</b>	Yellow Mustard
<b>Title</b>	Assessment of newly developed high yielding & high oil content yellow mustard varieties.
<b>Problem diagnosed</b>	Low performance of normal mustard variety.
<b>Farming situation</b>	Irrigated

<b>Details of technology identified for solution</b>	T <sub>1</sub> - Farmers practice (B-9) T <sub>2</sub> - High yielding & high oil content yellow sarson variety (Pitambari)
<b>No. of farmers</b>	12 (Plot size-666 m <sup>2</sup> /treatment), area= 0.8 ha.
<b>Replications</b>	12
<b>Critical inputs</b>	Seeds of Pitambari yellow sarson variety.
<b>Production system</b>	Rice-Wheat/Mustard
<b>Source of technology</b>	CSAUA&T, Kanpur, DRMR, Bharatpur
<b>Total Cost</b>	2100/-
<b>Observation to be recorded</b>	(i) 1000-seed wt (g), (ii) Yield (q/ha.), (iii) Oil content (%), (iv) Cost of cultivation (v) B : C ratio, (vi) Quality acceptance
<b>Reaction of the farmers</b>	

**(Plant Breeding)**

**OFT -6**

**(Rabi 2023-24)**

<b>Particulars</b>	<b>Contents</b>
<b>Crop</b>	Wheat (Rabi 2023-23)
<b>Title</b>	Assessment of new high yielding wheat varieties & their characterization under late sown condition.
<b>Problem diagnosed</b>	Low yield & poor quality of wheat varieties
<b>Farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Farmers practices (DBW-373) T <sub>2</sub> - New high yielding wheat variety (DBW-173/HD-3298)
<b>No. of farmers</b>	12 (Plot size 666 m <sup>2</sup> /treatment), area= 0.8 ha.
<b>Replications</b>	12
<b>Critical inputs</b>	Seeds of new high yielding variety (DBW-173/HD-3298)
<b>Production system</b>	Rice-Wheat system
<b>Source of technology</b>	University
<b>Total Cost</b>	6700/=
<b>Observation to be recorded</b>	(i) No. of tillers/plant, (ii) 1000-grain wt., (iii) Yield (q/ha.), (iv) Cost of cultivation, (v) B : C ratio, (vi) Quality acceptance.
<b>Reaction of the farmers</b>	

**Horticulture**

**OFT- 7**

**(Zaid 2023)**

<b>Particulars</b>	<b>Contents</b>
<b>Crop</b>	<b>Sponge gourd</b>

<b>Title</b>	<b>Assessment of high yielding varieties of Sponge gourd</b>
<b>Problem diagnosed</b>	<b>Low production of Sponge gourd due to use of local varieties.</b>
<b>Farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmers practice (Nasdar) T <sub>2</sub> - Pusa Sneha / as per availability
<b>No. of farmers</b>	05 (Plot size -800 m <sup>2</sup> /treatment)
<b>Replications</b>	05
<b>Critical inputs</b>	Seed
<b>Production system</b>	Rice-wheat
<b>Source of technology</b>	IARI, Pusa, New Delhi
<b>Total Cost</b>	4500.00
<b>Observation to be recorded</b>	No. of fruit/plant, Yield /ha
<b>Reaction of the farmers</b>	-

### Horticulture

OFT – 8

(Rabi 2023-24)

<b>Particulars</b>	<b>Contents</b>
<b>Crop</b>	<b>Onion</b>
<b>Title</b>	<b>To Assess the performance of new variety of Onion</b>
<b>Problem diagnosed</b>	Low production of onion due to use of old variety
<b>Farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmers Practice (N-53) T <sub>2</sub> – Pusa Madhvi / Pusa Riddhi / as per availability
<b>No. of farmers</b>	05 (Plot size -800 m <sup>2</sup> /treatment)
<b>Replications</b>	05
<b>Critical inputs</b>	Seed
<b>Production system</b>	Rice-wheat
<b>Source of technology</b>	IARI, Pusa, New Delhi
<b>Total Cost</b>	5000.00
<b>Observation to be recorded</b>	Yield qt/ha, Net profit (Rs/ha)
<b>Reaction of the farmers</b>	-

OFT- 9 (Plant Protection)

(Kharif- 2023)

<b>Particulars</b>	<b>Contents</b>
<b>Crop</b>	<b>Paddy</b>
<b>Title</b>	<b>Assessment of Fungicide against Sheath blight in Paddy</b>
<b>Problem diagnosed</b>	Low yield of Rice due to heavy incidence of Sheath blight
<b>Farming situation</b>	Irrigated
<b>Production system</b>	Rice-Wheat

<b>Details of technology identified for solution</b>	T <sub>1</sub> - Farmers practice (Theram 50 WP) T <sub>2</sub> - Carbendazim 25% + Flusilazole 12.5 % SE (Luster) @0.05%
<b>No. of farmers</b>	06 (Plot size – 667sqm)
<b>Replications</b>	06
<b>Critical inputs</b>	Carbendazim 25% + Flusilazole 12.5 % SE (Luster)
<b>Source of technology</b>	CRRI, Cuttak and SVPUA&T, Meerut
<b>Total Cost</b>	8000.0
<b>Observation to be recorded</b>	No. of Tiller /sqm, 1000 grain wt yield (q/ha)

**OFT- 10 (Plant Protection)**

**(Rabi 2023-24)**

<b>Particulars</b>	<b>Contents</b>
<b>Crop</b>	Tomato
<b>Title</b>	Biological control of Fruit borer in Tomato
<b>Problem diagnosed</b>	Low yield of Tomato due to infestation of Fruit borer.
<b>Farming situation</b>	Irrigated
<b>Production system</b>	Rice- Tomato
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Farmers practice (Imidacloprid) 17.8 SL@1.0ml /1.25 ltr. of water T <sub>2</sub> - Trichocard (50,000-75000 Eggs/ha)
<b>No. of farmers</b>	08
<b>Replications</b>	08
<b>Critical inputs</b>	Trichocard
<b>Source of technology</b>	SVPUA&T , Meerut
<b>Total Cost</b>	10000.00
<b>Observation to be recorded</b>	Technical : No. of affected fruit/sqm, Yield (Q/ha) Economic : Cost of cultivation, Additional return & BC Ratio Social : Acceptance

**OFT- 11 (Livestock Production)**

<b>Crop/ Enterprises</b>	Dairy
<b>Breed</b>	Cattle
<b>Title of OFT</b>	<b>To assess the effect of feeding mineral mixture and Dewormer on reproductive performance of Cattle</b>
<b>Problem diagnosed</b>	High incidence of anestrus and repeat breeding in Cattle.
<b>Number of farmers/animals</b>	10/10
<b>Critical Inputs</b>	Mineral mixture @ 50 gm./animal/day + deworming bolus at every 3 months interval.
<b>Thematic area</b>	Dairy management
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Use of common salt only T <sub>2</sub> : Mineral mixture supplementation + Dewormer
<b>Duration</b>	120 days
<b>Source of technology</b>	IVRI, Izzatnagar(U.P.)
<b>Critical Inputs</b>	Mineral mixture @ 50 gm./animal/day + deworming bolus at every 3 months interval.
<b>Observations to be recorded</b>	Conception rate, number of anoestrus and repeat breeders cured
<b>Total Cost</b>	Rs. 6700

**OFT- 12 (Livestock Production)**

<b>Crop/ Enterprises</b>	<b>Dairy</b>
<b>Breed</b>	Cattle
<b>Title of OFT</b>	<b>To assess the effect of Masti-out plus kit on milch animals (Cattle)</b>
<b>Problem diagnosed</b>	High incidence of mastitis in milch animals (Cattle).
<b>Number of farmers/animals</b>	10/10
<b>Critical Inputs</b>	Masti-out plus kit
<b>Thematic area</b>	Dairy management
<b>Details of technology identified for solution</b>	T1: Use of locally made preparation. T2: Use of Masti-out plus kit for each animal.
<b>Duration</b>	120 days
<b>Source of technology</b>	IVRI, Izzatnagar(U.P.)
<b>Observations to be recorded</b>	Disease infestation, number of milch animals cured
<b>Total Cost</b>	<b>Rs. 6500</b>

**OFT-13 Home Science****(Kharif 2023)**

<b>Particulars</b>	<b>Contents</b>
<b>Crop</b>	Lemon Pickle
<b>Title</b>	Preparation of lemon pickle.
<b>Problem diagnosed</b>	Low income of farm women due to no value addition of lemon.
<b>Thematic area</b>	Value addition and small-scale industry.
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Farmers practice (No value addition) T <sub>2</sub> - Pickle making from lemon.
<b>No. of farmers</b>	05
<b>Critical inputs</b>	Lemon
<b>Source of technology</b>	CISH, Lucknow, APC, CIAE Bhopal
<b>Characteristics of technology/ variety</b>	i-High in vitamins and vitamins, ii-Long storage life iii-High palatability
<b>Total Cost</b>	4000/-
<b>Observation to be recorded</b>	(i) Income through product, (ii) Keeping quality of value added product, (iii) B. C. Ratio
<b>Reaction of the farmers</b>	

**OFT-14 Home Science****(Rabi 2023-24)**

<b>Particulars</b>	<b>Contents</b>
<b>Crop/ Enterprise</b>	Sugarcane Stripper
<b>Title</b>	Evaluation of newly improved sugarcane stripper.
<b>Problem diagnosed</b>	Lower efficiency and more time consumption.
<b>Farming situation</b>	Irrigated
<b>Production system &amp; Thematic area</b>	Sugarcane

<b>Details of technology identified for solution</b>	T <sub>1</sub> - Local or indigenous equipment. T <sub>2</sub> - Use of improved agricultural equipment
<b>No. of farmers</b>	05
<b>Critical inputs</b>	Stripper
<b>Source of technology</b>	IISR, Lucknow
<b>Total Cost</b>	3000/-
<b>Observation to be recorded</b>	(i) Time taken for cutting, (ii) Cost of cultivation (iii) B. C. Ratio, (iv) Social acceptance
<b>Reaction of the farmers</b>	

### 3.2 Cluster Frontline Demonstrations (Under NFSM Programme)

#### A. Details of Cluster FLDs to be organized in 2023

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ Demontion
1.	Black gram	ICM	Var. PU-31/ IPU 94-1 & As per availability	- Seed (HYV) - Imazathapyr @ 625 ml/ha. - Imidachlorpid @ 250ml/ha.	Kharif 2023	06	15
3.	Mustard	ICM	R.H.- 0749/As Per availability	- Seed - Sulphur - Imidachlorpid @ 250ml/ha - Fungicide	Rabi- 2023-24	20	50
2.	Til	ICM	GJT-6 & As per availability	- Seed , - sulphur - Imidachlorpid @ 250 ml/ha - Fungicide	Rabi 2023-24	10	25
<b>Total</b>						<b>36.0 ha.</b>	<b>90.0</b>

#### Details of FLD other than oil seed & pulses to be organized –

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/de mo.	Parameters identified
<b>Other than oilseed and pulses</b>									
1	Sugarcane	Co-0238	Weed management	Weed management in S.cane through Chlorimuron Ethyl 25% +Metsulfuron	- Weedicide - Chlorimuron Ethyl 25% +Metsulfuron methyl 50% @ 80-100 gram /ha.	Zaid- 2023	6.0	15	- Grain yield q/ha. - Weed population - Economics



				methyl 50% @ 80-100 gram /ha.					
2	Paddy	Pusa-1509	Weed Management	Weed management in paddy through Oxadygel-80 WP @ 35 gm/ha.	- Weedicide Oxadygel-80 WP @ 35 gm/ha.	Kharif - 2023	6.0	15	1. No of tillers/ hills. 2. Yield q/ha. 3. Economics (C:B)
3	Wheat	DBW 621-50 /HD2967	Weed Management	Weed management in wheat through carfantazone 50 w.p. @ 20 gm/ha.	Weedicide - carfantazone 50 w.p. @ 20 gm/ha.	Rabi 2023-24	6.0	15	- Grain yield q/ha. - Weed population - Economics
4	Paddy (PP)	Hybrid/Basmati	- Integrated Pest management	- Control of Brown plant hopper through Buprofezin 25 SC @ 1lt./ha. (Two spray)	- Buprofezin Total 8.0 Lit.	Kharif -2023	6.0	15	- Insect infestation % - Yield(q/ha) - Economics
5	Wheat (PP)	-	IPM	Control of aphid by Thiamethoxam	Thiamethoxam	Rabi 2023-24	6.0	15	- Yield / Profit
6	Paddy (PB)	PB-1718	Vareital assessment	To demonstrate the new high yielding varieties of paddy.	Seeds	Kharif-2023	6.0	15	- No. of tillers/hills, - 1000-seed wt. - Yield (q/ha) - Cost of cultivation - B : C ratio
7	Wheat (PB)	DBW-187/HD-3226	Varietal evaluation	To demonstrate the new high yielding varieties of wheat under early sown conditions.	Seeds	Rabi, 2023	4.0	12	- Tillers /m <sup>2</sup> - 1000-grain wt. - Yield (q/ha.) - Cost of cultivation - B : C ratio
8	Wheat (PB)	DBW-173/HD-3298	Varietal evaluation	To demonstrate & extension of wheat Biofortified wheat variety for yield under late sown condition.	Seeds	Rabi, 2023	4.0	12	- Tillers /m <sup>2</sup> - 1000-grain wt. - Yield (q/ha.) - Quality parameters - Cost of cultivation - B : C ratio
9	Bitter Gourd (Horti.)	Pusa Vishesh / as per availability	Varietal demonstration	Impact of improved variety of Bitter Gourd	Seed	Zaid 2023	1.00	10	Yield & yield attributing character, BC ratio
10	Cauliflower (Horti.)	-	INM	Use of micronutrient	Boron (15kg/ha)	Kharif 2023	1.00	10	Yield & yield attributing character, BC ratio
11	Tomato (Horti.)	PH- 4/ PH-8/ as per availability	Varietal demonstration	Impact of improved variety of Tomato	Seed	Rabi 2023-24	1.00	10	Yield & yield attributing character, BC ratio
<b>Total</b>							<b>47.0</b>	<b>144</b>	

### Livestock- Fodder production demo:

Sl. No.	Category	Thematic area	Technology for demonstration	Critical input	Season and year	Area (ha)	No. of farmers/demo.	No. of units (Animals/Poultry /Birds etc.)	Parameters identified
1	Oat	Fodder production	To increase the yield through high yielding variety OS 403 or OS 405 as per availability	45 Kg seed (4.5 Kg/0.2 hectare)	Rabi 2023-24	0.2	10	-	Green fodder yield
2	Berseem	Fodder production	To increase the yield through high yielding variety BL- 10 /JB-1/ as per availability	45 Kg seed (4.5 Kg/0.2 hectare)	Rabi 2023-24	0.2	10	-	Green fodder yield
3	Buffalo	Animal nutrient management	To increase milk yield through supplementing Calcium and dewormer	Calcium supplement @ 100 ml./animal/day +Dewormer	-	-	10	10	Milk yield (Litre/animal /day)

### FLD on Other Enterprise : Home Science -

Sl. No.	Enterprise	Thematic area	Technology for demonstration	Critical inputs	Season & Year	Area	No. of farmers/ demo	Performance parameters / indicators
1.	Kitchen Garden	Household food security	To demonstrate the nutritional based multi crops in kitchen garden	Improved variety of seeds	Zaid-Rabi 2023	200 m <sup>2</sup>	10	Yield per plot, B.C Ratio.
2.	Kitchen Garden	Household food security	To demonstrate the nutritional based multi crops in kitchen garden	Improved variety of seeds	Kharif 2023	100 m <sup>2</sup>	10	Yield per plot, B.C Ratio.
3	Preparation of cheese	Value addition	To demonstrate the process of cheese making	Full cream milk, vinegar	Rabi 2023-23	-	10	Hardness and softness of cheese, B.C. Ratio.

**A. Sponsored Demonstration: None**

### B. Extension and Training Activities Under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	January 2023 to Dec., 2023	250
2	Farmers Training	10	January 2023 to Dec.,2023	200
3	Media coverage	08	January 2023 to Dec.,2023	mass
4	Training for extension functionaries	05	January 2023 to Dec.,2023	50

## C. Details of FLD on Enterprises: None

### Training (Including the Sponsored and FLD Training Programmes):

#### A) ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	-	36	04	-	04	40
Resource Conservation Technologies	02	36	-	36	04	-	04	40
Cropping Systems	01	18	-	18	02	-	02	20
Seed production	12	216	-	216	24	-	24	240
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	05	90	-	90	10	-	10	100
Off-season vegetables	03	53	-	53	07	-	07	60
Nursery raising	01	17	-	17	03	-	03	20
Grading and standardization	01	18	-	18	02	-	02	20
<b>b) Fruits</b>								
Management of young plants/orchards	01	18	-	18	02	-	02	20
Micro irrigation systems of orchards	01	17	-	17	03	-	03	20
<b>c) Plantation crops</b>								
Production and Management technology	02	33	-	33	07	-	07	40
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	02	36	-	36	04	-	04	40
Integrated Nutrient Management	01	17	-	17	03	-	03	20
Use of Bio- fertilizers	01	18	-	18	02	-	02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	7	114	9	123	17	-	17	140
Piggery Management	1	16	1	17	3	-	3	20
Disease Management	2	34	3	37	3	-	3	40
Feed management	2	36	-	36	4	-	4	40
<b>V Home Science/Women empowerment</b>								
Design and development of low/minimum cost diet	2	-	36	36	-	04	04	40
Designing and development for high nutrient efficiency diet	1	-	17	17	-	03	03	20
Minimization of nutrient loss in processing	2	-	35	35	-	05	05	40
Gender mainstreaming through SHGs	1	-	18	18	-	02	02	20
Storage loss minimization techniques	2	-	35	35	-	05	05	40
Value addition	1	-	16	16	-	04	04	20
Income generation activities for empowerment of rural Women	1	-	18	18	-	02	02	20
Rural Crafts	1	-	17	17	-	03	03	20
Women and child care	2	-	35	35	-	05	05	40
<b>VI Plant Protection</b>								
Integrated Pest Management	07	124	-	124	16	-	16	140
Integrated Disease Management	05	87	-	87	13	-	13	100
<b>VII Production of Inputs at site</b>								
Production of Bee-colonies and wax sheets	02	36	-	36	04	-	04	40
<b>TOTAL</b>	<b>75</b>	<b>1088</b>	<b>240</b>	<b>1328</b>	<b>139</b>	<b>33</b>	<b>172</b>	<b>1500</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08	-	08	02	-	02	10
Bee-keeping	01	08	-	08	02	-	02	10
Seed production	04	32	-	32	08	-	08	40
Production of organic inputs	01	08	-	08	02	-	02	10
Vermi-culture	01	08	-	08	02	-	02	10
Protected cultivation of vegetable crops	01	08	-	08	02	-	02	10
Nursery Management of Horticulture crops	01	07	-	07	03	-	03	10
Training and pruning of orchards	01	07	-	07	03	-	03	10
Value addition	01	08	-	08	02	-	02	10
Dairying	04	30	3	33	7	-	7	40
Small scale processing	02	-	15	15	-	05	05	20
Tailoring and Stitching	01	-	08	08	-	02	02	10
Rural Crafts	01	-	08	08	-	02	02	10
<b>TOTAL</b>	<b>20</b>	<b>124</b>	<b>34</b>	<b>158</b>	<b>33</b>	<b>9</b>	<b>42</b>	<b>200</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	03	30	-	30	-	-	-	30
Varietal diversification/Seed production	04	40	-	40	-	-	-	40

Integrated Pest Management	08	64	-	64	16	-	16	80
Protected cultivation technology	01	10	-	10	-	-	-	10
Management in farm animals	2	16	-	16	4	-	4	20
Women and Child care	1	-	08	08	-	02	02	10
<b>TOTAL</b>	<b>19</b>	<b>160</b>	<b>08</b>	<b>168</b>	<b>20</b>	<b>02</b>	<b>22</b>	<b>190</b>
<b>G. Total</b>	<b>114</b>	<b>1372</b>	<b>282</b>	<b>1654</b>	<b>192</b>	<b>44</b>	<b>236</b>	<b>1890</b>

## B) OFF Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	03	53	-	53	07	-	07	60
Cropping Systems	02	36	-	36	04	-	04	40
Seed production	12	216	-	216	24	-	24	240
Integrated Crop Management	04	71	-	71	09	-	09	80
Integrated nutrient Management	01	18	-	18	02	-	02	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	05	90	-	90	10	-	10	100
Off-season vegetables	01	18	-	18	02	-	02	20
Nursery raising	03	51	-	51	09	-	09	60
Grading and standardization	01	18	-	18	02	-	02	20
Protective cultivation (Green Houses, Shade Net etc.)	01	17	-	17	03	-	03	20
<b>b) Fruits</b>								
Cultivation of Fruit	01	17	-	17	03	-	03	20
Management of young plants/orchards	01	17	-	17	03	-	03	20
<b>c) Tuber crops</b>								
Production and Management technology	01	18	-	18	02	-	02	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	-	18	02	-	02	20
Integrated Nutrient Management	02	36	-	36	04	-	04	40
<b>IV Livestock Production and Management</b>								
Dairy Management	3	48	5	53	7	-	7	60
Poultry Management	2	35	-	35	5	-	5	40
Piggery Management	2	33	-	33	7	-	7	40
Rabbit Management /goat	3	48	4	52	8	-	8	60
Disease Management	3	45	4	49	11	-	11	60
Feed management	1	16	1	17	3	-	3	20
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	2	-	36	36	-	04	04	40
Design and development of low/minimum cost diet	1	-	18	18	-	02	02	20
Designing and development for high nutrient efficiency diet	2	-	36	36	-	04	04	40
Gender mainstreaming through SHGs	1	-	17	17	-	03	03	20
Storage loss minimization techniques	2	-	34	34	-	06	06	40
Value addition	2	-	35	35	-	05	05	40
Location specific drudgery reduction technologies	1	-	18	18	-	02	02	20
Women and child care	1	-	16	16	-	04	04	20
<b>VI Agril. Engineering</b>								
Post Harvest Technology	01	18	-	18	02	-	02	20
<b>VII Plant Protection</b>								
Integrated Pest Management	07	123	-	123	17	-	17	140
Integrated Disease Management	03	54	-	54	06	-	06	60
Bio-control of pests and diseases	01	17	-	17	03	-	03	20
<b>VII Production of Inputs at site</b>								
Bio-agents production	01	17	-	17	03	-	03	20
<b>TOTAL</b>	<b>78</b>	<b>1148</b>	<b>224</b>	<b>1372</b>	<b>158</b>	<b>30</b>	<b>188</b>	<b>1560</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	01	08	-	08	02	-	02	10
Varietal diversification/ Seed production	08	66	-	66	14	-	14	80
Integrated Pest Management	05	40	-	40	10	-	10	50
Integrated Nutrient management	06	48	-	48	12	-	12	60
Protected cultivation technology	04	32	-	32	08	-	08	40

Management in farm animals	2	14	3	17	3		3	20
Women and Child care	3	-	24	24	-	06	06	30
Production and use of organic inputs	01	08	-	08	02	-	02	10
<b>TOTAL</b>	<b>30</b>	<b>216</b>	<b>27</b>	<b>243</b>	<b>51</b>	<b>06</b>	<b>57</b>	<b>300</b>
<b>G. Total</b>	<b>108</b>	<b>1364</b>	<b>251</b>	<b>1615</b>	<b>204</b>	<b>36</b>	<b>245</b>	<b>1860</b>

### C) Consolidated Table (ON and OFF Campus) Trainings.

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	05	89	-	89	11	-	11	100
Resource Conservation Technologies	04	72	-	72	08	-	08	80
Cropping Systems	03	54	-	54	06	-	06	60
Integrated Crop management	04	71	-	71	09	-	09	80
Seed production	24	432	-	432	48	-	48	480
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	10	180	-	180	20	-	20	200
Off-season vegetables	04	71	-	71	09	-	09	80
Nursery raising	04	68	-	68	12	-	12	80
Grading and standardization	01	18	-	18	02	-	02	20
Protective cultivation (Green Houses, Shade Net etc.)								
<b>b) Fruits</b>								
Cultivation of Fruit	01	17	-	17	03	-	03	20
Management of young plants/orchards	02	35	-	35	05	-	05	40
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	03	54	-	54	06	-	06	60
Integrated Nutrient Management	05	90	-	90	10	-	10	100
<b>IV Livestock Production and Management</b>								
Dairy Management	10	162	14	176	24	-	24	200
Poultry Management	2	35	-	35	5	-	5	40
Piggery Management	3	49	1	50	10	-	10	60
Rabbit Management/goat	3	48	4	52	8	-	8	60
Disease Management	5	79	7	86	14	-	14	100
Feed management	3	52	1	53	7	-	7	60
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	2	-	36	18	-	02	02	20
Design and development of low/minimum cost diet	3	-	54	54	-	06	06	60
Designing and development for high nutrient efficiency diet	3	-	53	53	-	07	07	60
Minimization of nutrient loss in processing	2	-	35	35	-	05	05	40
Gender mainstreaming through SHGs	2	-	35	35	-	05	05	40
Storage loss minimization techniques	4	-	69	69	-	11	11	80
Value addition	3	-	51	51	-	09	09	60
Income generation activities for empowerment of rural Women	1	-	18	18	-	02	02	20
Location specific drudgery reduction technologies	1	-	18	18	-	02	02	20
Rural Crafts	1	-	17	17	-	03	03	20
Women and child care	4	-	67	67	-	13	13	80
<b>VI Agril. Engineering</b>								
Post Harvest Technology	01	18	-	18	02	-	02	20
<b>VII Plant Protection</b>								
Integrated Pest Management	14	247	-	247	33	-	33	280
Integrated Disease Management	8	141	-	141	19	-	19	160
Bio-control of pests and diseases	1	17	-	17	3	-	3	20
<b>IX Production of Inputs at site</b>								
Bio-agents production	1	17	-	17	3	-	3	20
<b>TOTAL</b>	<b>147</b>	<b>2116</b>	<b>480</b>	<b>2578</b>	<b>277</b>	<b>65</b>	<b>342</b>	<b>2920</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08	-	08	02	-	02	10
Bee-keeping	02	15	-	15	05	-	05	20
Seed production	04	32	-	32	08	-	08	40
Production of organic inputs	03	24	-	24	06	-	06	30
Vermi-culture	01	08	-	08	02	-	02	10
Sericulture	01	08	-	08	02	-	02	10

Protected cultivation of vegetable crops	01	08	-	08	02	-	02	10
Nursery Management of Horticulture crops	01	07	-	07	03	-	03	10
Training and pruning of orchards	01	08	-	08	02	-	02	10
Value addition	01	08	-	08	02	-	02	10
Dairying	4	30	3	33	7	-	7	40
Poultry production	01	08	-	08	02	-	02	10
Small scale processing	2	-	15	15	-	05	05	20
Tailoring and Stitching	1	-	08	08	-	02	02	10
Rural Crafts	1	-	08	08	-	02	02	10
<b>TOTAL</b>	<b>25</b>	<b>164</b>	<b>34</b>	<b>198</b>	<b>43</b>	<b>09</b>	<b>52</b>	<b>250</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	03	30	-	30	-	-	-	30
Varietal diversification/ Seed production	04	40	-	40	-	-	-	40
Integrated Pest Management	13	104	-	104	26	-	26	130
Integrated Nutrient management	05	40	-	40	10	-	10	50
Protected cultivation technology	01	10	-	10	-	-	-	10
Management in farm animals	4	30	3	33	7	-	7	40
Women and Child care	04	-	32	32	-	08	08	40
<b>Total</b>	<b>34</b>	<b>254</b>	<b>35</b>	<b>289</b>	<b>43</b>	<b>08</b>	<b>51</b>	<b>340</b>
<b>G. TOTAL</b>	<b>206</b>	<b>2534</b>	<b>549</b>	<b>3065</b>	<b>363</b>	<b>82</b>	<b>445</b>	<b>3510</b>

### 3.4. Extension Activities (including Activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	05	125	20	145	-	-	-	125	20	145
Kisan Mela	01	400	50	450	15	02	17	465	55	520
Kisan Ghosthi	01	400	50	450	15	02	17	465	55	520
Exhibition	01	400	50	450	15	02	17	465	55	520
Group meetings	01	40	-	40	05	-	05	45	-	45
Lectures delivered as resource persons	10	100	20	120	100	-	100	220	120	340
Newspaper coverage	50	-	-	-	-	-	-	-	-	Mass
Radio talks	05	-	-	-	-	-	-	-	-	Mass
TV talks	02	-	-	-	-	-	-	-	-	Mass
Popular articles	02	-	-	-	-	-	-	-	-	Mass
Extension Literature	05	-	-	-	-	-	-	-	-	Mass
<b>Advisory Services</b>										
Scientific visit to farmers field	50	250	-	250	50	-	50	300	-	300
Farmers visit to KVK	200	800	25	825	75	-	75	875	25	900
Diagnostic visits	10	250	50	300	-	-	-	250	50	300
Exposure visits	02	100	-	100	-	-	-	100	-	100
Ex-trainees Sammelan	01	50	-	50	03	-	03	53	-	53
Soil health Camp	04	400	100	500	-	-	-	400	100	500
Soil test campaigns	02	300	20	320	25	-	25	325	20	345
Self Help Group Conveners meetings	01	10	10	20	-	-	-	10	10	20
Celebration of important days (specify)	03	150	30	180	05	-	05	155	30	185
Pre Kharif workshop	01	100	25	125	-	-	-	100	25	125
Pre Rabi workshop	01	100	25	125	-	-	-	100	25	125
Soil health card distribution	02	200	25	225	5	-	5	205	25	230
<b>Total</b>	<b>360</b>	<b>4175</b>	<b>500</b>	<b>4675</b>	<b>313</b>	<b>06</b>	<b>319</b>	<b>4658</b>	<b>615</b>	<b>5273</b>

### 3.5 Target for Production and supply of Technological products SEED MATERIALS (at KVK Farm)

Sl. No.	Crop	Variety	Type of production	Quantity (qtl.)
<b>CEREALS</b>				
	Paddy	PB- 1718 / As Availability of variety	Seed production	150.00
	Wheat	DBW-187 / As Availability of variety	Seed production	150.00
<b>OILSEEDS</b>	Mustard	R.H. -0749 / As Availability of variety	Seed Production /Commercial	100.00
<b>PULSES</b>	Black gram	As Availability of variety	Commercial	25.00
<b>OTHERS (Specify)</b>	Dhencha	Local		Green Manuring



**PLANTING MATERIALS**

Sl. No.	Crop	Variety	Quantity (Nos.)	No. of Farmers distributed
<b>FRUITS</b>				
	Papaya	Pusa nanha/Red lady / Pant Papeeta -1	2000.00	100
<b>VEGETABLES</b>				
	Onion	Pusa madhavi/ Pusa Red/	20000.00	20
	Cauliflower	Pusa Deepali	5000.00	10
	Brinjal	Pusa uttam/ Pusa Upkar	1000.00	10
	Tomato	Pusahybrid-2/ pusahybrid-4	4000.00	20
<b>ORNAMENTAL CROPS</b>				
	Marigold	Pusa Narangi/ Pusa Basanti/ Pusa Arpita	1000.00	30
<b>Total</b>				

**Literature to be Developed/Published****(A) KVK News Letter -**

Date of start :

Number of copies to be published :

**(B) Literature developed/published**

S.No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	15
3	News letters	-
4	Training manual all discipline	02
5	Popular article	05
6	Extension literature	05
<b>Total</b>		<b>33</b>

**(C) Details of Electronic Media to be Produced: NIL****3.7. Success stories/Case studies identified for development as a case - 03**

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) Discussions on Problem with farmers
- b) PRA
- c) Discussion with line departments.
- D) Field level observations

**Rural Youth**

- a) Discussions on Problem with farmers
- b) PRA
- c) Discussion with line departments.
- d) Field level observations

**In-service personnel**

- a) Discussion
- b) Field level observations

**3.9 Indicate the methodology for identifying OFTs/FLDs****For OFT:**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions

- For FLD :**
- v) Others if any
  - i) New variety/technology
  - ii) Poor yield at farmers level
  - iii) Existing cropping system
  - iv) Others if any

### 3.10 Field activities

i. Name of villages identified/adopted with block name (from which year)

S. No.	Taluk	Name of the block	Name of the village	Adopted Year
01	Hasanpur	Hasanpur	Khyalipur	2021
02	Amroha	Joya	Guladyia	2021
03	Dhanaura	Dhanaura	Neelee Kheree	2022
04	Dhanaura	Gajraula	Kumrala	2022
05	Dhanaura	Gajraula	Raipur Sumali	2022
06	Dhanaura	Gajraula	Fatehpur Sumali	2022

### 3.11. Activities of Soil and Water Testing Laboratory - N A

Status of establishment of Lab: NA

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Agriculture Deptt.	Kisan Mela & Exhibition/ Trining & Gosthi
2.	Horticulture Deptt.	Kisan Mela & Exhibition/ Trining & Gosthi
3.	Animal Husbandary	Kisan Mela & Exhibition/ Trining & Gosthi
4.	IFFCO	Kisan Mela & Exhibition/ Trining & Gosthi
5.	KRIBHCO	Kisan Mela & Exhibition/ Trining & Gosthi

### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes



# Details of Training Programme

Annexure - I

## (i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Ist Quarter (January To March, 2023)</b>										
<b>Crop Production</b>										
10.02.2023	PF	Intercropping of Cucumber/ Cucurbits in spring sugarcane.	01	18	-	18	02	-	02	20
25.03.2023	PF	Conserve and decompose the crop residual for in riching in organic carban in soil.	01	18	-	18	02	-	02	20
<b>Soil Health</b>										
07.01.2023	PF	Use of water soluble fertilizers in wheat crops .	01	18	-	18	02	-	02	20
<b>Plant Breeding</b>										
10.01.2023	PF	Roughing techniques in wheat crops.	01	18	-	18	02	-	02	20
09.02.2023	PF	Roughing techniques in yellow sarson.	01	18	-	18	02	-	02	20
04.03.2023	PF	Production technology & variety of cole crops.	01	18	-	18	02	-	02	20
<b>Plant Protection</b>										
03.01.2023	PF	Integrated disease management in sugarcane	01	18	-	18	02	-	02	20
07.02.2023	PF	Minimizing the infestation of stored grain insects pests.	01	17	-	17	03	-	03	20
14.03.2023	PF	Management of sucking insect-pest in lentil.	01	17	-	17	03	-	03	20
<b>Horticulture</b>										
10.01.2023	PF	Nursery Management of off season vegetable	01	18	-	18	2	-	2	20
03.02.2023	PF	Scientific cultivation technique of Bottle gourd	01	17	-	17	3	-	3	20
16.03.2023	PF	Fertilizer management in cucurbits crop	01	18	-	18	2	-	2	20
<b>Livestock production</b>										
04-01-2023	PF	Stress management in dairy animals	01	17	2	19	1	-	1	20
11-01-2023	PF	Methods of identification of livestock	01	17	1	18	2	-	2	20
10-02-2023	PF	Heat detection techniques in cattle, buffalo, sheep, Goat	01	16	1	17	3	-	3	20
01-03-2023	PF	Judging of cattle and buffalo	01	15	2	17	3	-	3	20
<b>Home Science</b>										
04.01.2023	PF	Safe grain storage at household level	01	-	18	18	-	2	2	20
03.01.2023	PF	Causes and dietary prevention of Malnutrition among women and children.	01	-	18	18	-	2	2	20
01.03.2023	PF	Importance of Balanced diet in our life.	01	-	17	17	-	3	3	20
<b>IInd Quarter (April To June, 2023)</b>										
<b>Crop Production</b>										
21.05.2023	PF	Production technique of direct seeded rice.	01	18	-	18	02	-	02	20
<b>Soil Health</b>										
10.06.2023	PF	Use of bio fertilizers in paddy crop.	01	18	-	18	02	-	02	20
<b>Plant Breeding</b>										
03.04.2023	PF	Varietasl diversification & production technology of basmati rice	01	18	-	18	02	-	02	20
04.05.2023	PF	Varietal diversification & production	01	18	-	18	02	-	02	20

02.06.2023	PF	technology of sugarcane. Varietal diversification & production technology of millets.	01	18	-	18	02	-	02	20
<b>Plant Protection</b>										
05.04.2023	PF	Insect-pest management in cucurbitaceous crops.	01	18	-	18	02	-	02	20
26.05.2023	PF	Management of termite in sugarcane.	01	18	-	18	02	-	02	20
22.06.2023	PF	Diseases of rice nursery & their management.	01	17	-	17	03	-	03	20
<b>Horticulture</b>										
11.04.2023	PF	Cultivation technique of Tubrose	01	17	-	17	03	-	03	20
03.05.2023	PF	Post harvest management in Onion	01	18	-	18	02	-	02	20
02.06.2023	PF	Cultivation technique of Turmeric	01	18	-	18	02	-	02	20
<b>Livestock production</b>										
08-04-2023	PF	Age determination in cattle and buffalo	01	17	-	17	03	-	03	20
12-05-2023	PF	Importance of balance feeding in lactating animals	01	18	-	18	02	-	02	20
01-06-2023	PF	Training on animal purchase	01	17	1	18	02	-	02	20
<b>Home Science</b>										
03.04.2023	PF	Formation and importance of Self Help Group to empower rural women.	01	-	18	18	-	2	2	20
02.05.2023	PF	Preservation of fruits and vegetables.	01	-	17	17	-	3	3	20
05.06.2023	PF	Spices preparation from locally available ingredients.	01	-	18	18	-	2	2	20
<b>IIIrd Quarter (July To Sept., 2023)</b>										
<b>Crop Production</b>										
11.7.2023	PF	Weed management in paddy	01	18	-	18	02	-	02	20
12.9.2023	PF	Production technology of Intercropping with Autumn sugar cane.	01	18	-	-	18	-	02	20
<b>Soil Health</b>										
20.9.2023	PF	Conserve and decompose the crop residual for in riching organic carban for soil health.	01	18	-	18	02	-	02	20
<b>Plant Breeding</b>										
04.07.2023	PF	Importance of roughing in rice production.	01	18	-	18	02	-	02	20
07.08.2023	PF	New varieties of urd & moong bean and their production technology.								
04.09.2023	PF	New varieties of rapeseed & mustard & their production technologies.	01	18	-	18	02	-	02	20
<b>Plant Protection</b>										
21.07.2023	PF	IPM Module for gall midge in paddy	01	18	-	18	02	-	02	20
10.08.2023	PF	IDM Module for Bakani disease in paddy	01	17	-	17	03	-	03	20
13.09.2023	PF	Control of Rice stem borer through bio-agent	01	18	-	18	02	-	02	20
<b>Horticulture</b>										
05.07.2023	PF	Cultivation technique of Kharif Vegetable	1	18	-	18	2	-	2	20
08.08.2023	PF	Scientific cultivation technique of carrot	1	17	-	17	3	-	3	20
04.09.2023	PF	Nursery Management of young orchard plants	1	18	-	18	2	-	2	20
<b>Livestock production</b>										
04-07-2023	PF	Management of Repeat Breeding in milch animals	01	17	2	19	1	-	1	20
03-08-2023	PF	Management of FMD in cattle and buffalo	01	17	1	18	2	-	2	20
01-09-2023	PF	Economics of Pig farming	01	16	1	17	3	-	3	20

<b>Home science</b>										
10.08.2023	PF	Creative rakhi making for income generation	01	-	18	18	-	2	2	20
22.08.2023	PF	Prevention from water and food borne diseases among children and women	01	-	17	17	-	3	3	20
06.09.2023	PF	Prevention and Therapeutic cure of Protein energy malnutrition among children	01	-	16	16	-	4	4	20
<b>IVth Quarter ( Oct. To Dec., 2023)</b>										
<b>Crop Production</b>										
25.10.2023	PF	Weed management in wheat crop	01	18	-	18	02	-	02	20
23.11.2023	PF	Foliar Spray of water soluble fertilizers in rabi crops.	01	18	-	18	02	-	02	20
<b>Soil Health</b>										
10.10.2023	PF	Conserve and decompose the crop residual for in riching organic carban in soil.	01	18	-	18	02	-	02	20
<b>Plant Breeding</b>										
06.10.2023	PF	Seed production technology of yellow sarson.	01	18	-	18	02	-	02	20
02.11.2023	PF	Seed production technology of Bio-fortified wheat.	01	18	-	18	02	-	02	20
05.12.2023	PF	Imp[roved varieties of wheat under timely sown condition and their production techniques.	01	18	-	18	02	-	02	20
<b>Plant Protection</b>										
20.10.2023	PF	IPM Module for Wheat Crops	01	18	-	18	02	-	02	20
16.11.2023	PF	Integrated insect & disease management in Mustard	01	17	-	17	03	-	03	20
20.12.2023	PF	Control of early & late blight of Potato	01	18	-	18	02	-	02	20
<b>Horticulture</b>										
11.10.2023	PF	Nursery Management of onion crop	01	18	-	18	02	-	02	20
07.11.2023	PF	Scientific cultivation of Tomato	01	17	-	17	03	-	03	20
08.12.2023	PF	Cultivation techniques of off season vegetables	01	18	-	18	02	-	02	20
<b>Livestock production</b>										
04.10.2023	PF	Layout plan of cattle and buffalo farm	1	15	2	17	3	-	3	20
17.11.2023	PF	Importance of supplementing mineral mixture to lactating animals	1	18	-	18	2	-	2	20
<b>Home Science</b>										
03.10.2023	PF	Techniques for better nutrient retention	01	-	18	18	-	2	2	20
17.10.2023	PF	Decoration of diya in traditional style for home decoration.	01	-	17	17	-	3	3	20
06.11.2023	PF	Methods of preparation of different types of low cost nutritious diet	01	-	18	18	-	2	2	20
01.12.2023	PF	Scientific storage practices of Rabi crops	01	-	17	17	-	3	3	20
07.12.2023	PF	Value added products of jaggery	01	-	16	16	-	4	4	20

**(ii) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Ist Quarter (January To March, 2023)</b>										
<b>Crop Production</b>										
28.01.2023	PF	Integrated nutrient management ratoon Sugar cane .	01	17	-	17	03	-	03	20
03.02.2023	PF	Production tech. of inter crop in spring sugar cane	01	18	-	18	02	-	02	20

<b>Soil Health</b>										
05.03.2023	PF	Conserve and decompose the crop residual for in riching organic carban in soil.	01	18	-	18	02	-	02	20
<b>Plant Breeding</b>										
17.01.2023	PF	Roughing techniques in wheat crops.	01	18	-	18	02	-	02	20
03.02.2023	PF	Roughing techniques in yellow sarson.	01	18	-	18	02	-	02	20
13.03.2023	PF	Production technology & variety of cole crops.	01	18	-	18	02	-	02	20

<b>Plant Protection</b>										
10.01.2023	PF	Integrated disease management in sugarcane	01	18	-	18	02	-	02	20
14.02.2023	PF	Management of store grain pests during summer	01	17	-	17	03	-	03	20
21.03.2023	PF	Role of summer ploughing in pest management	01	18	-	18	02	-	02	20
<b>Horticulture</b>										
18.01.2023	PF	Cultivation technique of Sponge guard	01	18	-	18	02	-	02	20
20.02.2023	PF	Nursery raising technique of Mari gold	01	17	-	17	03	-	03	20
21.03.2023	PF	Scientific cultivation technique of Okra	01	17	-	17	03	-	03	20
<b>Livestock Production</b>										
20-01-2023	PF	Vaccination in Poultry	01	18	-	18	02	-	02	20
17-02-2023	PF	Training on backyard and commercial broiler farming.	01	17	-	17	03	-	03	20
23-03-2023	PF	Training on Pig farming.	01	18	-	18	02	-	02	20
<b>Home Science</b>										
18.01.2023	PF	Value addition of Tomato	01	-	17	17	-	3	3	20
16.02.2023	PF	Ready to serve beverages from locally available fruits.	01	-	18	18	-	2	2	20
27.03.2023	PF	Value addition of Groundnut.	01	-	18	18	-	2	2	20
<b>IInd Quarter (April To June, 2023)</b>										
<b>Crop Production</b>										
09.04.2023	PF	Production technology of late planted S.cane	01	18	-	18	02	-	02	20
23.04.2023	PF	Weed management in sugar cane	01	17	-	17	03	-	03	20
12.05.2023	PF	Integrated crop management in scented rice	01	17	-	17	03	-	03	20
<b>Soil Health</b>										
09.06.2023	PF	Importance & application techniques of water soluble fertilizer in paddy crop.	01	18	-	18	02	-	02	20
<b>Plant Breeding</b>										
11.04.2023	PF	Varietal diversification & production technology of basmati rice	01	18	-	18	02	-	02	20
06.05.2023	PF	Varietal diversification & production technology of sugarcane.	01	18	-	18	02	-	02	20
06.06.2023	PF	Varietal diversification & production technology of millets.	01	18	-	18	02	-	02	20
<b>Plant Protection</b>										
12.04.2023	PF	Integrated disease management in	01	18	-	18	02	-	02	20

		paddy crop									
27.06.2023	PF	Storage pest management in kharif pulses	01	17	-	17	03	-	03	20	
<b>Horticulture</b>											
17.04.2023	PF	Layout & planting method of mango orchards	1	17	-	17	3	-	3	20	
12.05.2023	PF	Nursery raising Techniques of early Cauliflower	1	18	-	18	2	-	2	20	
22.06.2023	PF	Use of micro nutrient (Boron) in Cauliflower	1	18	-	18	2	-	2	20	
<b>Livestock production</b>											
27-04-2023	PF	Training on Goat farming	1	18	-	18	2	-	2	20	
09.05.2023	PF	Training on Cattle and buffalo farming.	1	18	-	18	2	-	2	20	
19-05-2023	PF	Economics of Goat farming	1	16	1	17	3	-	3	20	
16-06-2023	PF	Economics of Dairy farming	1	17	1	18	2	-	2	20	
<b>Home Science</b>											
10.04.2023	PF	Health benefits and nutritious value of green leafy vegetables.	01	-	18	18	-	2	2	20	
15.05.2023	PF	Food adulteration and its testing at household level.	01	-	17	17	-	3	3	20	
<b>IIIrd Quarter (July To Sept., 2023)</b>											
<b>Crop Production</b>											
12.07.2023	PF	Weed management in paddy	01	18	-	18	02	-	02	20	
13.09.2023	PF	Production technology of Intercropping with Autumn sugar cane	01	18	-	18	02	-	02	20	
23.09.2023		Production technology of Potato	01	18	-	18	02	-	02	20	
<b>Soil Health</b>											
15.07.2023	PF	Importance of micro-nutrients in sugar cane crop.	01	18	-	18	02	-	02	20	
<b>Plant Breeding</b>											
06.07.2023	PF	Importance of roughing in rice production.	01	18	-	18	02	-	02	20	
10.08.2023	PF	New varieties of urd & moong bean and their production technology.									
08.09.2023	PF	New varieties of rapeseed & mustard & their production technologies.	01	18	-	18	02	-	02	20	
<b>Plant Protection</b>											
27.07.2023	PF	IPM Module for DBM in Cabbage	01	18	-	18	02	-	02	20	
17.08.2023	PF	IPM Module for root knot nematode in Rice	01	17	-	17	03	-	03	20	
21.09.2023	PF	IPM Module for fruit borer in Tomato	01	18	-	18	02	-	02	20	
<b>Horticulture</b>											
11.07.2023	PF	Scientific cultivation technique of Papaya	01	17	-	17	03	-	03	20	
22.08.2023	PF	Plantation & Management of Newly Orchard	01	18	-	18	02	-	02	20	
20.09.2023	PF	Scientific cultivation technique of Pea	01	17	-	17	03	-	03	20	
<b>Livestock Production</b>											
12.07.2023	PF	Prevention and management of Mastitis in dairy animals	01	16	-	16	04	-	04	20	

15.08.2023	PF	Management of anoestrus in cattle and buffalo	01	15	-	15	05	-	05	20
22.08.2023	PF	Care and management of Goats during rainy season	01	14	3	17	03	-	03	20
07.09.2023	PF	Importance of deworming in cattle, buffalo, sheep and goat	01	14	4	18	02	-	02	20
<b>Home Science</b>										
03.07.2023	PF	Household Food security by nutrition gardening.	01	-	18	18	-	2	2	20
31.08.2022	PF	Potato preservation technique at household level	01	-	17	17	-	3	3	20
20.09.2022	PF	Layout planning of kitchen garden	01	-	18	18	-	2	2	20

<b>IVth Quarter ( Oct. To Dec., 2023)</b>										
<b>Crop Production</b>										
26.10.2023	PF	Production technology of timely sown wheat	01	18	-	18	02	-	02	20
25.11.2023	PF	Fertilizer & Irrigation management in late sown wheat	01	18	-	18	02	-	02	20
05.12.2023	PF	Weed management in wheat	01	18	-	18	02	-	02	20
<b>Soil Health</b>										
29.10.2023	PF	Importance of water soluble fertilizers in rabi crops .	01	17	-	17	03	-	03	20
<b>Plant Breeding</b>										
09.10.2023	PF	Improved varieties of late sown wheat and their production technique	01	18	-	18	02	-	02	20
06.11.2023	PF	Quality seed production technology of yellow Sarso.	01	18	-	18	02	-	02	20
06.12.2023	PF	Seed production technology of Bio-fortified wheat.	01	18	-	18	02	-	02	20
<b>Plant Protection</b>										
27.10.2023	PF	Management of early and late blight disease in potato	01	18	-	18	02	-	02	20
23.11.2023	PF	Importance of bio-agent/ Bio-pesticide in vegetable	01	17	-	17	03	-	03	20
27.12.2023	PF	Control of aphid in cruciferous crops	01	18	-	18	02	-	02	20
<b>Horticulture</b>										
18.10.2023	PF	Nursery management of Tomato crop	1	18	-	18	2	-	2	20
17.11.2023	PF	Cultivation technique of Off season vegetables	1	17	-	17	3	-	3	20
13.12.2023	PF	Production of low volume & high-volume crop	1	18	-	18	2	-	2	20
<b>Livestock production</b>										
13.10.2023	PF	Importance of housing in Cattle and buffalo	1	13	4	17	3	-	3	20
23.11.2023	PF	Feeding of Pig	1	15	-	15	5	-	5	20
19.12.2023	PF	Assessment of nutritional status of cow using BCS	1	16	1	17	3	-	3	20
<b>Home Science</b>										
11.10.2023	PF	Hygiene and sanitation practices for healthy living	01	-	16	16	-	4	4	20
02.11.2023	PF	Modification of daily diet into high nutrient efficient diet	01	-	18	18	-	2	2	20

28.11.2023	PF	Strengthening of SHG	01	-	17	17	-	3	3	20
22.12.2023	PF	Drudgery reduction of farm women through work simplification technique	01	-	18	18	-	2	2	20

### (iii) Vocational Training Programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
<b>Ist Quarter (January to March,2023)</b>											
<b>Crop production</b>											
Crop production	Promotion of Organic manure	Production tech. of quality full manure of pressmud.	Feb.,023	05	08	-	08	02	-	02	10
<b>Plant Breeding</b>											
Wheat	Seed production	New high yielding varieties of Urd/Moong and their production technology	January, 2023	05	08	-	08	02	-	02	10
<b>Plant protection</b>											
Plant Protection	Promotion of Honey Production	Technique of Bee- Keeping	February, 2023	05	07	-	07	03	-	03	10
<b>Horticulture</b>											
Vegetable	Protective Cultivation	Protective cultivation of vegetable crops	January, 2023	05	07	-	07	03	-	03	10
<b>Livestock production</b>											
Dairy	Dairying	Training on Mastitis management in dairy animals.	Jan., 2023	05	07	-	07	03	-	03	10
<b>Home Science</b>											
Potato	Income generation	Making of papad and chips for income generation.	February, 2023	5	-	8	8	-	2	2	10
<b>IInd Quarter (April to June,2023)</b>											
<b>Crop Production</b>											
Organic manure	Vermicompost	Production technique of Vermicompost.	June,2023	05	08	-	08	02	-	02	10
<b>Plant Breeding</b>											
Paddy	Seed production	Seed production technique of paddy.	June, 2023	05	08	-	08	02	-	02	10
<b>Horticulture</b>											
Nursery Raising	Nursery Management	Nursery mgt. of fruit crops	April, 2023	05	07	-	07	03	-	03	10
<b>Livestock production</b>											
Dairy	Dairying	Training on dairy farming	April., 2023	05	05	02	07	03	-	03	10
<b>Home Science</b>											
Plants and vegetables	Tailoring and stitching	Tie and dye from natural dye.	June,2023	05	-	8	8	-	2	2	10
<b>IIInd Quarter (July to Sept.,2023)</b>											
<b>Crop Production</b>											
Mushroom	Compost	Technique of compost production for Mushroom.	Sept.,2023	05	08	-	08	02	-	02	10
<b>Plant Breeding</b>											
Yellow sarson	Seed production	Quality seed production techniques in yellow sarson.	August, 2023	05	08	-	08	02	-	02	10
<b>Horticulture</b>											
Vegetable Production	Exotic vegetable	Cultivation technique of exotic vegetable crop i.e. broccoli & leak	Sept, 2023	05	08	-	08	02	-	02	10
<b>Plant Protection</b>											
Mushroom Production	Mushroom Production	Scientific Mushroom Production Technology	Sept., 2023	05	08	-	08	02	-	10	10
<b>Livestock Production</b>											
Production of quality animal products	Production of quality animal products	Training on Vermicomposting	Sept., 2023	05	05	02	07	03	-	03	10
<b>Home Science</b>											
Warli art	Rural craft	Warli art on pots	Sept,2023	05	-	08	08	-	02	02	10



<b>IVth Quarter (Oct. to Dec.,2023)</b>											
<b>Crop Production</b>											
Wheat	Seed Production	Seed production technique of Wheat	Oct. ,2023	05	08	-	08	02	-	02	10
<b>Horticulture</b>											
Training & Pruning	Training & Pruning	Training & Pruning of Mango Orchard	Oct, 2023	05	08	-	08	02	-	02	10
<b>Plant Breeding</b>											
Wheat	Seed production	Quality seed production technique in wheat	Oct, 2023	05	08	-	08	02	-	02	10
<b>Plant Protection</b>											
Bee Keeping	Bee Keeping	Scientific Bee Keeping Technique	Nov., 2023	05	08	-	08	02	-	10	10
<b>Livestock Production</b>											
Dairy	Dairying	Training on clean milk production	Dec., 2023	05	08	-	08	02	-	02	10
<b>Home Science</b>											
Soap	Small scale processing	Handmade soap making and its setup for profitable soap making business	Dec,2023	05	-	07	07	-	03	03	10

### (Vi) Training Programme for Extension Functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total	
				M	F	T	M	F	T		
<b>Ist Quarter (January to March,2023)</b>											
<b>Crop Production</b>											
21.01.2023	Ext. Person	Importance of Nadap and vermin-compost for soil health.	01	08	-	08	02	-	02	10	
24.02.2023	Ext. Person	Production technology of intercrop in spring sugarcane.	01	08	-	08	02	-	02	10	
<b>Soil Science</b>											
22.02.2023	Ext. Person	Use of fertilizers on the basis of soil test.	01	08	-	08	02	-	02	10	
<b>Plant Breeding</b>											
28.03.2023	Ext. Person	Promotion of millets cultivation in western Uttar Pradesh.	01	08	-	08	02	-	02	10	
<b>Horticulture</b>											
07.02.2023	EF	Ridge bed technique in tomato crop	01	08	-	08	02	-	02	10	
<b>Plant Protection</b>											
12.01.2023	Ext. Person	Control of late blight in Potato	01	08	-	08	02	-	02	10	
10.02.2023	Ext. Person	Management of loose smut in wheat	01	08	-	08	02	-	02	10	
16.03.2023	Ext. Person	Disease management in wheat.	01	08	-	08	02	-	02	10	
<b>Livestock Production</b>											
25.01.2023	Ext. Person	Care and Management of transition cow	01	08	-	08	02	-	02	10	
<b>Home Science</b>											
20.02.2023	Ex. Person	Importance of breast feeding in new born children.	01	-	08	08	-	02	02	10	
<b>IInd Quarter (April to June ,2023)</b>											
<b>Crop Production</b>											
06.06.2023	Ex. Person	Importance of new paddy varieties and their production techniques.	01	08	-	08	02	-	02	10	
<b>Soil Science</b>											
13.06.2023	Ext. Person	Importance of soil testing in crop production.	01	08	-	08	02	-	02	10	
<b>Plant Breeding</b>											
30.05.2023	Ext. Person	Quality seed production technology in paddy for enterprenership development.	01	08	-	08	02	-	02	10	
<b>Horticulture</b>											
06.04.2023	EF	Impotence of drip irrigation in horticulture crops	01	07	-	07	03	-	03	10	
<b>Plant Protection</b>											
30.06.2023	Ext. Person	Management of early shoot borer in sugarcane.	01	08	-	08	02	-	02	10	
13.04.2023	Ext. Person	Biological control of termites	01	08	-	08	02	-	02	10	
25.05.2023	Ext. Person	Management of white grub in sugarcane.	01	08	-	08	02	-	02	10	
<b>Livestock Production</b>											
19.05.2023	Ex. Person	Prophylactic measures against common diseases of Goats.	01	08	-	08	02	-	02	10	



<b>Home Science</b>										
12.06.2023	EF	Preparation of low cost teaching materials for anganwadi..	01	-	8	8	-	2	2	10

**IIIrd Quarter (July to Sept. ,2023)**

**Crop Production**

10.08.2023	Ext. Person	Role & importance of water soluble fertilizer in crop production.	01	08	-	08	02	-	02	10
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**Soil Science**

19.08.2023	Ext. Person	Use of sulphur in oil seed crop.	01	08	-	08	02	-	02	10
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05.09.2023	Ext. Person	Conserve and decompose the crop residual for in riching in organic carban in soil.	01	08	-	08	02	-	02	10
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**Horticulture**

22.08.2023	EF	Scientific Cultivation Technique of papaya Crop	01	08	-	08	02	-	02	10
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**Plant Breeding**

03.07.2023	Ext. Person	Promotion of newly released sugarcane varieties & their characterization and production technology.	01	08	-	08	02	-	02	10
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**Plant Protection**

13.07.2023	Ext. Person	Biological control of Yellow Stem Borer in Rice	01	08	-	08	02	-	02	10
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16.07.2023	Ext. Person	Control of Bacterial Blight & Blast in rice.	01	08	-	08	02	-	02	10
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23.07.2023	Ext. Person	Control of fruit & shoot borer in Brinjal	01	08	-	08	02	-	02	10
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25.08.2023	Ext. Person	Management of non-insect pests in rabi pulses	01	08	-	08	02	-	02	10
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**Livestock Production**

30/08/2023	Ext. Person	Care and management of calf during winter season	01	06	03	09	01	-	01	10
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**Home Science**

14.08.2023	Ex. Person	Prevention and management of typhoid during monsoon season	01	-	08	08	-	02	02	10
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**IVth Quarter (Oct. to Dec.,2023)**

**Crop Production**

10.11.2023	Ext. Person	Use of water soluble fertilizers in wheat.	01	08	-	08	02	-	02	10
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20.11.2023	Ext. Person	Improved varieties of wheat and their production technology of late sown	01	08	-	08	02	-	02	10
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**Soil Science**

01.11.2023	Ext. Person	Foliar spray of water soluble fertilizers on rabi crops	01	08	-	08	02	-	02	10
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**Horticulture**

16.10.2023	EF	Cultivation Technique of Gladiolus Crop	01	08	-	08	02	-	02	10
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**Plant Breeding**

25.10.2023	Ext. Person	Production technology of wheat Bio-fortified varieties and their characterization.	01	08	-	08	02	-	02	10
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**Plant Protection**

22.10.2023	Ext. Person	Insect pest management in Potato	01	08	-	08	02	-	02	10
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29.11.2023	Ext. Person	Disease management in Wheat	01	08	-	08	02	-	02	10
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14.12.2023	Ext. Person	Control of insect pest & disease in Tomato	01	08	-	08	02	-	02	10
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**Livestock Production**

15/12/2023	Ext. Person	Feeding, housing and breeding management of lactating animals during winter season	01	08	-	08	02	-	02	10
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**Home Science**

27.12.2023	Ex. Person	Awareness about immunization among pregnant women	01	-	08	08	-	02	02	10
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# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA BADAUN-I**

# ANNUAL ACTION PLAN (JANUARY- DECEMBER 2023)

## 1. General Information about the KVK

### 1.1 Name and address of the KVK with Phone, Fax and e-mail

Address	Telephone	e-mail	Website
KrishiVigyan Kendra, Ujhani Distt. – Badaun PIN – 243639		badaunkvk@gmail.com	badaun.kvk4.in

### 1.2 Name and address of the host organization with Phone, Fax and e-mail

Address	Telephone	Fax	e-mail	Website
SardarVallabhbbhai Patel University of Agri. & Tech., Meerut -250110 (U.P.)	0121- 2888511	0121- 2888540	deesvpuat2014@gmail.com	svpuat.ac.in

1.2 a Status of KVK website : Yes

1.2 b No. of Visitors (hits) to your KVK website (as on today)

1.2 c Status of ICT lab at your KVK - No

### 1.3 Name of the Head with Phone & Mobile No.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Sanjay Kumar		9412368175	sanjayento77@gmail.com

1.4 Year of sanction : 01.08.1992

### 1.5 Staff Position (as on 31 August 2022)

S.N.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile no.	Age	Email id
1	Senior Scientist & Head	Dr. Raksha Pal Singh	ON LEAVE									
2	Subject Matter Specialist	Dr. Sanjay Kumar	Officer Incharge	Ph.D. (Entomology)	15600-39100	98300	15.07.08	Permanent	SC	9412368175	45	sanjayento77@gmail.com
3	Subject Matter Specialist	Dr. Shri Pal Singh	S.M.S. /Asstt. Prof. (Animal Science)	Ph.D. (Animal Science)	15600-39100	104100	18.08.08	Permanent	OBC	8954903816	61	sspsachan@gmail.com
4	Subject Matter Specialist	Dr. Manish Kumar Singh	S.M.S. (Horticulture)	Ph.D. (Horticulture)	15600-39100	56100	01.07.22	Permanent	OBC	9889532398	30	manish371990@gmail.com
5	Subject Matter Specialist	Dr. Sauhard Dubey	S.M.S. (Agronomy)	Ph.D. (Agronomy)	15600-39100	56100	01.07.22	Permanent	Gen	7599006647	26	sauhardsd29@gmail.com
6	Subject Matter Specialist	Smt. Nidhi Sachan	S.M.S. (Home Science)	Ph.D. (Agronomy)	15600-39100	56100	11.07.22	Permanent	OBC	8318615870	30	nidheesachan3@gmail.com
7	Programme Assistant	Dr. Anand Prakash	Trg. Asstt. (A.V. Aids)	Ph.D. (Agril. Extn.)	9300-34800	83600	20.12.95	Permanent	OBC	9412195441	54	dranandprakash121@gmail.com
8	Computer Programmer	Sh. Ashish Agarwal	Prog. Asstt. (Computer)	B.Sc. & Diploma in computer	9300-34800	78800	16.10.99	Permanent	Other	9456868422	47	to.ashishagarwal1999@gmail.com
9	Farm Manager	Sri. Anoop Singh	Prog. Asstt. \Farm Manager	M.Sc. (Agronomy)	9300-34800	56900	30.07.07	Permanent	Other	8090969866	40	
10	Accountant / Superintendent	Sh. Alok Saxena	Office. Supdt./ Accountant	M.Com.	9300-34800	72100	6.9.2000	Permanent	Other	9411300515	50	saxenaalok72@gmail.com
11	Driver cum Mechanic	Sri. Virendra Kumar Mishra	Driver	B.A.	5200-20200	38100	05.12.03	Permanent	Gen	8859630842	48	-
12	Supporting staff	Sh. Jagvir Singh	Field Attendant	B.A.	5200-20200	30200	15.01.04	Permanent	OBC	9410021878	35	jagvirshakya85@gmail.com

### 1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1.	Total Area	14.045 ha
2.	Area under Building	1.90 ha
3.	Others (specify) Fish pond	0.345 ha
4.	Total Cultivated land	11.80 ha
a.	Under Crops	10.50 ha
b.	Orchards	1.30 ha
<b>Total</b>		<b>14.045 ha</b>

### 1.7. Infra-structural Development

#### A) Buildings

Sl.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion date	Plinth area (sq.m)	Expenditure (lac)	Starting date	Plinth area (sq.m)	Status of construction
1.	Administrative building	ICAR	2001	550	29.00			Complete
2.	Farmers Hostel	ICAR	2005	300	16.43			Complete
3.	Staff Quarters (06)	ICAR	2008	2400	28.67	-		Complete
4.	Demo. unit. (02)	ICAR	2008	160	4.00	-		Complete
5.	Fencing	ICAR	2007	2000	16.43			Complete
6.	Rain water harvesting system	ICAR	2005	4000	0.33			Complete
7.	Threshing floor	ICAR	2007	300	1.00			Complete
8.	Farm godown	ICAR	2007	60	1.00			Complete
9.	Poultry unit	UPCAR	2022	167	20.00			Complete
10.	Poultry unit	RKVY	2022	24	2.49			Complete
11.	Azola Unit	RKVY	2022	13.45	3.47			Complete
12.	Polyhouse	RKVY	2022	560	8.00			Complete
13.	Vermi compost	RKVY	2022	21.40	1.12			Complete

## B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Vehicle No. /Total kms. Run	Present status
Jeep (01)	2008	507000.00 + Expenses	UP24 – G 0127 / 208000	Working
Motorcycle (01)	2010	Purchased by H.Q.	UP24G-0148/85000	Working
Cycle (02)	1998	2338.00	-	Not Working

## C) Equipments & Audio Visual Aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status
Computer Hub system	Received 2008	Purchased by ERNET	Not Functioning
Computer	Received 2005	Purchased by H.Q.	Working
Computer Printer	Received 2005	Purchased by H.Q.	Working
Computer Printer	2006	6800.00	Working
Projector	2004	Purchased by H.Q.	Working
Soil testing lab. equipment	2005	485432.40	Working
Colour television & DVD player	2006	14500.00	Working
LCD	2007	64125.00	Working
Digital Camera	2008	19990.00	Working
Laptop	2017	Purchased by H.Q.	Working

### 1.8. A). Details of SAC meetings to be conducted in the year

SLNo.	Date
1. Scientific Advisory Committee	09.12.2021

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	Agriculture + Horticulture + Animal Husbandry
2.	Agriculture + Animal Husbandry + Horticulture
3.	Agriculture + Animal Husbandry + Poultry
4.	Agriculture + Horticulture + Animal Husbandry + Poultry

### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

#### a) Soil Type

S. No	Agro ecological situation	Characteristics
1.	AES-I	It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat,

		potato, sugarcane, Bajra as well as guava cultivation. Out of 15 development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, Meon, Usawan
2.	AES-II	It represents the Mid Western Plain Zone of the district with loamy soil having medium fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Ujhani, Qadarchowk, Salarpur and Wajirganj.
3.	AES-III	It represents the Mid Western Plain Zone of the district having sandy soil and sandy loam with medium fertility and medium rainfall. Six development blocks viz. Bisauli, Asafpur, Ambiyapur, Islamnagar, Sahaswan, Dehgawan comes under this AES. It is suited for cereal crops as well as vegetables.

#### b) Topography

S. No.	Agro ecological situation	Characteristics
1	AES-I	It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well as guava cultivation. Out of 15 development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, Meon, Usawan
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#### 2.3 Soil types

Sl. No	Soil type	Characteristics	Area (ha )
1	Clay Loam	It is more fertile than sandy and sandy loam	2558
2	Sandy Soil	Sandy soil is dominated and having low status of NPK.	224480
3	Sandy Loams	It is more fertile than sandy soil	199730

#### 2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (mt)	Productivity (Qtl /ha)
<b>A</b>	<b>FIELD CROPS INCLUDING OIL SEEDS AND PULSES</b>			
1.	Wheat	232327	772345	33.24
2.	Gram	68	75	11.11
3.	Pea	836	1774	21.22
4.	Mustard /Toria	35071	52417	14.95
5.	Lentil	3842	5379	14.00
6.	Paddy	78127	178254	22.82
7.	Bajra	99882	185962	18.62
8.	Maize	8024	16653	20.75
9.	Arhar	503	492	9.79

10.	Groundnut	525	620	11.80
11.	Moong	126	68	5.40
12.	Sugarcane	26891	1560108	580.16
<b>B</b>	<b>VEGETABLES</b>			
1.	Potato	12104	214664	177.35
2.	Tabacco	706	3912	55.45
3.	Turmeric	250	715	28.61

#### 2.5. Weather data (2019-20)

#### 2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<b>Buffalo</b>	40590		
<b>Sheep</b>	15930		
<b>Goats</b>	22975		
<b>Pigs</b>			
<i>Crossbred</i>	10561		
<i>Indigenous</i>	22945		
<b>Rabbits</b>			
<b>Poultry</b>			
Hens	159725		
<i>Desi</i>			
<b>Category</b>		Production (Q.)	Productivity
Fish (Reservoir)			

\*Statcal report



## 2.7 Details of operational area / villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust areas
Bilsi	Ambiapur	Hasapur Baheria	Bajra, Maize, Jower, Wheat, Potato, Mustard, Barly, Toria, Sugarcane, Paddy, Gram, Vegetables, Mentha, Poultry, Buffalo, Bee keeping etc.	Productivity of paddy, wheat, Maize, Bajra, Lentil etc. in general are very low. The main reason of low yield is imbalance use of fertilizer and lack of high yielding varieties  Sever infestation of stem borer, Brown Plant Hopper and Blast disease in rice. Fruit borer problem in Tomato, Chilies and Capsicum and nematode problem in cucurbits and tomato and chilies. Wilt in lentil. Weed infestation in various crops. Use of local varieties of different crops by the farmer. Pest problems in vegetable crops. Poor milk production and infertility in animals. Lack of quality planting material in horticultural crops. Wilt infestation in Guava orchards. Drudgery in farm activities.	Integrated nutrient management. High yielding varieties  Post harvest management.  Nutrition and health.  Employment generation in Rural areas.  Bio pesticide in vegetables/ cereals.  Establishment of nurseries.  Diversification in Agriculture.  Use of improved varieties.  Nutrition management and repeated breeding management in dairy animals.
Sadar	Ujhani	Prathvi Nagla, Mehona, Hajratganj, Bhawanipur, Baramaldev Chautuiya			
Sahaswan	Dahagwan	Dhel, Malpur tatera, Bhoayas			

## 2.8 Priority thrust areas

S.N.	Thrust area
16.	Low organic carbon & available Potassium in soil.
17.	Lack of knowledge about balance nutrition in agricultural crops.
18.	Need of diversification in agriculture.
19.	Lack of elite quality planting material of horticultural crops and lack of Bahar control in guava.
20.	Lack of knowledge about improved varieties and seed production of different crops.
21.	Lack of IPM and IDM in various crops
22.	Lack of management in animal and poultry production.
23.	Lack of improved breeds of animals.
24.	Lack of balance nutrition and good health in animals.
25.	Nutrition and health of farm families
26.	Preservation of fruit and vegetable surplus
27.	Rural Craft

### 3. Technical Programme

#### A Details of target and achievements of mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
16	66	81.25	283

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
125	2120	3846	Mass

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
200.00	21000	-	1000	1000

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
12.70	2000	-	-

## B. Abstract of interventions to be undertaken

Thrust area	Crop/Enterprise	Identified problem	Innovation				
			Title of OFT if any	Title of FLD if any	Title of training if any	Title of training for extn. Per.	Extension activities
Varietal evaluation	Onion		Use of high yielding variety Bhima Kiran	Use of high yielding variety Bhima Shakti			
	Chilli			Use of HYVEG078 variety			
	Mentha		Varietal evaluation of Sim unnati				
Weed management					Weed management in kharif crops		
	Wheat	Low productivity of crop due to severe problems of weeds			Integrated weed management in wheat	Weed management in rabi crops	
Integrated Crop Management	Paddy				Production technique of bio fertilizer Azola		
	Sugarcane					Importance of bio-fertilizer in crop production	
	Oilseed					Production technology of Rabi oilseeds	
	Guava				Crop regulation in guava		
	Wheat				Production techniques of wheat		
	Paddy				Role of timely application in rice crop		
Bio fertilizer	Rice				Use of Azola as biofertilizer in hybrid rice		
Nursery management	Rice				Nursery management & transplanting in paddy		
Production and management techniques	Bajra				Production technique of bajra		
	Potato				Production technology of potato		
	Green Gram				Production technology of Moong/urd		
	Mustard				Production technology of Mustard		
	Root crops				Production technology of root crops		
	Urd Bean				Production technology of Urd		
	Vermin compost				Production of vermi compost		
	Gram/Lentil				Production technology of Gram/Lentil		
	Mentha				Production techniques in mentha cultivation		
	Fodder crops				Production technology of Fodder crops		

Integrated Nutrient Management	Oilseed				Importance of micronutrients in rabi oilseeds		
	Groundnut				Nutrient management in groundnut		
	Maize				Cultivation techniques of maize		
Cropping system	Crops				Importance of intercropping/ mixed cropping		
Resource Conservation Technologies	Wheat					Improved technologies of natural resource management in agriculture	
					Use of Ghanjeebamarth as fertilizer		
					Importance of summer ploughing		
					Importance of crop rotation		
Production and use of organic input	Horticultural crops				Judicious use of irrigation water in horticultural crops		
	Green manuring				Use and importance of green manuring		
	Vermi compost				Vermi compost production technology		
	NADEP				Nadep compost production techniques		
	Carrot				Seed production techniques in carrot		
	Vegetable				Seed production of vegetables		
Feed management	Pulses					Seed production of pulses	
	Animal				Balance ration management of crossbred cows	Improving nutritive value of dry fodder by treating with urea	
	Animal				Importance of mineral mixture in animals		
	Animal				Feed supplement for better production in large animals		
	Animal				Diet management in newly born calves of cows & buffalos		
	Animal				Importance of balance diet for animals		
	Animal				Balance ration formulation for milch animals		
	Animal				Feeding and management of dairy animals		
Disease management	Animal				Role of mineral mixture and vitamins in milch animals		
	Animal				Foot and mouth disease in cattle : symptoms and control	Problem and control of sterility in animals	

	Animal			Control of endo and ecto parasites in buffaloes	Measure infectious and contagious diseases in animals: causes, symptoms and their remedies	Vaccination in farm animals	
	Cattle				Mastitis and udder infection in milch animals : Causes and prevention		
	Animal				Effect of parasites on animal productivity		
	Animal				Infectious diseases in animals and their remedies		
	Animal				Transmission of Infectious diseases from animals to human : Causes and remedies		
Dairy management	Buffalo		Assessment of clinical and non-clinical remedies in controlling repeat breeding	Increase milk yield in buffaloes by adding feed supplements of calcium , phosphorus and vitamin D <sub>3</sub>	Management of female animals for better production		
	Buffalo		Evaluation of clinical and non-clinical treatment for post calving anoestrous			Buffalo rearing is a profitable enterprise	
Poultry management	Poultry		Enhancing socio-economic status and copping malnutrition (Protein deficiency) by rearing of backyard poultry	Control of twisted leg and paralysis by using calcium, phosphorous and vit. D <sub>3</sub> in broilers	Feeding management of backyard poultry		
					Poultry production and management		
Management of farm animals	Animal		UMMB feeding to control repeat breeding in buffalo		Role of colostrum for health of new born animals		
	Animal				Management of hybrid cows		
Sheep and goat management	Goat				Goat farming is a profitable enterprise		
Export potential vegetables	Capsicum				Improved production technology of hybrid capsicum		
Production and management technology	Medicinal & aromatic plant				Importance and production technology of medicinal and aromatic plants	Importance and production technology of medicinal and aromatic plants	

	Onion				Production technique of Onion		
	Garlic				Improved production technique of garlic		
	Cole crops				Improved production technology of cole crops		
	Turmeric				Improved production technique of turmeric		
	Flower				Production techniques of commercial flowers		
	Marigold				Production techniques of marigold		
Nursery raising					Nursery growing for livelihood		
					Nursery raising of rainy season vegetables		
					Virus free nursery raising of papaya		
	Capsicum				Improved tech. of nursery raising of capsicum		
Layout and management of orchard	Mango				Layout and management of orchards		
Management of young plants /orchard					Protection of young orchards from frost		
					Use of mulching in fruit crops		
Micro irrigation	Fruit and vegetables					Drip irrigation in horticultural crops	
Rejuvenation of orchard	Mango					Rejuvenation of old mango orchard	
Training and pruning	Fruit				Training and pruning of fruit plants		
Protected cultivation	Vegetables				Protected cultivation of vegetables	Production off low volume and high value vegetable crops	
	Cucurbits					Production of off season vegetables	
Exotic vegetables	Vegetables				Production techniques of high value low volume vegetables		
Pest management	Rice	Low yield due to severe attack of BPH	Yellow Stem borer management in Paddy	BPH management	BPH management in Rice crop	IPM and their importance	
	Okra		Shoot and fruit borer management in okra				
	Maize				Management of shoot fly in Sorghum/Maize		
	Maize				Management of stem borer in maize		
	Mango				IPM of mango leaf hopper		
	Mustard				Integrated management of aphid in mustard	IPM in Rabi crops	

	Potato				Management of cut worm in potato		
	Tomato				IPM of fruit borer in tomato		
	Urd				Management of bihar hairy caterpillar		
	Sugarcane				Pyrrilla management in sugarcane		
	Paddy				Management of yellow stem borer in rice		
	Cucurbit			Use of Pheromone trap against Fruit fly			
	Capsicum		Fruit borer management				
	Chilli			Use of Emamectin Benzoate against DBM			
IDM	Potato			Use of Cymoxanil 8% + Mancozeb 64% against late blight	Integrated management of late blight in Potato		
	Groundnut				Tikka disease management in groundnut		
	Lentil				Control of rust in lentil		
	Mango				Management of powdery milder in mango		
	Rice					IDM in rice crop	
Bio Control	Sugarcane				Biocontrol of top borer in sugarcane		
Soil & water conservation					Soil sampling methods and its importance		
Micro nutrient deficiency in crops					Bio- fertilizer and its method of use		
					Green manuring		
					Sesbennia brown manuring in sugarcane		
INM					Increasing nutrient use efficiency in paddy crop		
ICM					Nutrient management in late sown wheat		
					Fenugreek cultivation in ratoon sugarcane		
Household food security by nutrition garden	Fruit and vegetables	Less availability of nutritive food	Enhancing household food security through nutrition garden	Production potential technology for nutrition garden	Household food security by nutrition gardening		
	Vegetable				Vegetable production in nutrition garden		
Value addition	Fruit and vegetables	Excess of seasonal fruit and vegetable		Aonla preservation	Value addition to seasonal fruits and vegetables significant for home scale preservation		
	Fruit and vegetables			Seasonal vegetable preservation	Value addition to aonla		

	Guava		Enhancing value of the crop & better return to the producer				
	Fruit and vegetables				Skill training on preservation of seasonal fruits and vegetables		
	Milk				Clean milk production and value addition to milk		
	Fruit and vegetables			Tomato preservation	Value addition to seasonal fruits and vegetables		
Rural Craft					Preparation of household articles with different craft techniques		
					Income generation activities for rural women		
					Preparation of articles with the technique of tie and dye		
Tie and dye techniques	Cloths				Tie and dye techniques of fabrics		
Design and development for high nutrient efficiency diet	Women and Child				Nutritional deficiency disease, their remedies and nutritional management and low cost nutritious diet		
	Women and Child				Diet consideration and nutrition management during different physiological conditions		
	Women and Child				Malnutrition: Causes and remedies dietary planning within limited recourses		
Women and child care	Women and Child				Importance of balance diet and immunization for children	Preparation of teaching aids for anganwadi centers using locally available materials	
	Women and Child				Women and child care during different physiological conditions	Child care management practices during early child hood	
	Women and Child				Importance of balance food during childhood improving nutritative value of food	Importance of proper nutrition and immunization during early childhood	
	Women and Child					Malnutrition: Causes and remedies nutrition management during different physiological conditions	
Health and Hygiene						Hygiene and sanitation practice for healthy living in farm women	



### 3.1 Achievements on technologies assessed and refined

#### A.1 Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Total
Var. Evaluation	2	-	-	1	1	4
Value addition	2	-	-	-	2	4
IPM	-	-	-	1	1	2
<b>Total</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>4</b>	<b>10</b>

#### A.2 Abstract on the number of technologies refined in respect of crops

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Vermiculture	Fisheries	TOTAL
Disease of Management	04	-	-	-	-	-	04
Production and Management	-	02	-	-	-	-	02
<b>TOTAL</b>	<b>04</b>	<b>02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>06</b>

### B. Details of On Farm Trial

#### OFT-1

Particulars	Contents
<b>Title</b>	Management of fruit borer in Capsicum
<b>Problem diagnosed</b>	Low yield of Capsicum due to severe attack of fruit borer
<b>Micro farming situation</b>	Irrigated and Sandy loam soil
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Cypermethrin 10EC @750 ml/ha <b>Treatment 2</b> : Spinetoram 11.7%SC @500 ml/ha
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Spinetoram
<b>Production system</b>	Maize-Capsicum
<b>Source of technology</b>	ICAR (IIVR, Varanasi)
<b>Total Cost</b>	Rs. 7000.00
<b>Observation to be recorded</b>	I. a. Percentage of damaged fruit b. Yield (q/ha) II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio
<b>Reaction of the farmers</b>	

OFT-2

Particulars	Contents
<b>Title</b>	Shoot & Fruit borer management in Okra
<b>Problem diagnosed</b>	Low yield of Okra due to high infestation of shoot & fruit borer
<b>Micro farming situation</b>	Irrigated and Sandy loam soil
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Cypermethrin 10EC @750 ml/ha (FP) <b>Treatment 2</b> : Indoxacarb 14.5 %SC @ 500 ml/ha
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Indoxacarb
<b>Production system</b>	Okra -Wheat
<b>Source of technology</b>	<b>ICAR</b>
<b>Total Cost</b>	Rs.5000.00
<b>Observation to be recorded</b>	I. a. Percentage of damaged plant b. Yield (q/ha) II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio
<b>Reaction of the farmers</b>	

OFT-3

Particulars	Contents
<b>Title</b>	Increase profitability by using high yielding variety of Basmati Paddy crop
<b>Problem diagnosed</b>	Less return due to use of old variety
<b>Micro farming situation</b>	Irrigated and Sandy loam soil
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Farmers Practice (Taj hybrid) <b>Treatment 2</b> : Pusa Basmati -1509
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Seed, Herbicide, Micronutrients
<b>Production system</b>	Rice-Wheat system
<b>Source of technology</b>	<b>S.V.P.U.A.&amp;T., Meerut</b>
<b>Total Cost</b>	8000.00
<b>Observation to be recorded</b>	i. Yield and yield attributes ii. Economics - 1. Cost of cultivation (Rs./ha) 2. Gross return (Rs./ha) 3. Net return (Rs./ha) 4. B : C ratio
<b>Reaction of the farmers</b>	-

**OFT-4**

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Increase profitability by using high yielding variety of wheat
<b>Problem diagnosed</b>	Low yield of wheat due to old varieties
<b>Micro farming situation</b>	Irrigated & sandy loam soil
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmer's Practice (PBW-550) T <sub>2</sub> : DBW-222
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Seed, Nutrient management
<b>Production system</b>	Rice-Wheat System
<b>Source of technology</b>	IIWBR , Karnal
<b>Total Cost</b>	Rs. 5400.00
<b>Observation to be recorded</b>	<b>i.</b> I. Yield & yield attributes <b>ii.</b> II. Economics - a. Cost of cultivation (Rs./ha) <b>iii.</b> b. Gross return (Rs./ha)    c. Net return (Rs./ha)    d. B : C ratio
<b>Reaction of the farmers</b>	-

**OFT-5**

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Varietal evaluation in Mentha
<b>Problem diagnosed</b>	Low oil productivity
<b>Micro farming situation</b>	Irrigated and Sandy loam soil
<b>Details of technology identified for solution</b>	Treatment 1 : Farmer's Practice (Shivalik) Treatment 2 : SimUnnati
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Planting materials (Suckers)
<b>Production system</b>	Bajra-Potato-Mentha
<b>Source of technology</b>	CIMAP, Lucknow
<b>Total Cost</b>	Rs. 10000.00
<b>Observation to be recorded</b>	I. Yield II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha)    c. Net return (Rs./ha)    d. B : C ratio
<b>Reaction of the farmers</b>	-

**OFT-6**

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Varietal evaluation of Onion
<b>Problem diagnosed</b>	Low yield & poor keeping quality
<b>Micro farming situation</b>	Irrigated and Sandy loam soil
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Farmer's practice (Desi) <b>Treatment 2</b> : Bhima Kiran@ 10 Kg / ha
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	<b>Seed of onion varieties -BhimaKiran</b>
<b>Production system</b>	Bajra- Onion
<b>Source of technology</b>	Directorate of Onion & Garlic Research, Pune Maharashtra
<b>Total Cost</b>	Rs. 8000.00
<b>Observation to be recorded</b>	I. Yield II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio
<b>Reaction of the farmers</b>	-

**OFT-7 & 8**

<b>Particulars</b>	<b>Contents (Kharif 2022 &amp; Rabi 2022-23)</b>
<b>Crop/Enterprise</b>	<b>Buffalo</b>
<b>Title</b>	Evaluation of clinical and non-clinical treatment for post calving anoestrous
<b>Problem diagnosed</b>	Higher incidences of post-calving anoestrous
<b>Micro farming situation</b>	Animal husbandry (Buffalo)
<b>Details of technology identified for solution</b>	T1 : Farmer's practice (Use of choker and common salt) T2 : Use of Dewormer (10 ml ivermectin inj.)/animal & Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) after 45 days of calving + Mineral mixture supplementation @ 50 g/day /animal for 45 days
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Ivermectin injection 30 ml Multi vitamins (Vimeral) 900 ml Mineral Mixture (Chelated) 6 kg Vetmate (6 ml)
<b>Production system</b>	Animal husbandry (Buffalo)
<b>Source of technology</b>	Indian Veterinary Research Institute, Izatnagar, Bareilly
<b>Total Cost</b>	Rs. 4500.00/ Season
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>▪ No. of cured (treated) animals</li> <li>▪ Cost: Benefit ratio</li> </ul>

**OFT-9& 10**

Particulars	Contents (Kharif 2022 & Rabi 2022-23)
Crop/Enterprise	<b>Buffalo</b>
Title	Assessment of clinical and non-clinical remedies in controlling repeat breeding
Problem diagnosed	Higher incidences of repeat breeding
Micro farming situation	Animal husbandry (Buffalo)
Details of technology identified for solution	<b>T1 : Farmer's practice (Use of choker and common salt)</b> <b>T2 : Use of Dewormer (10 ml ivermectin inj.)/animal &amp; Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days</b>
No. of farmers	03
Replications	03
Critical inputs	Ivermectin injection 30 ml , Mineral Mixture (Chelated) 6 kg , Receptal (15ml)
Production system	Animal husbandry (Buffalo)
Source of technology	IVRI , Izzatnagar, Bareilly
Observation to be recorded	<ul style="list-style-type: none"> <li>▪ No. of cured (treated) animals</li> <li>▪ Cost: Benefit ratio</li> </ul>

**OFT-11 & 12**

Particulars	Contents (Kharif 2022 & Rabi 2022-23)
Crop/Enterprise	<b>Poultry</b>
Title	<b>Enhancing socio-economic status by rearing of backyard poultry</b>
Problem diagnosed	Poor socio-economic status and malnutrition
Micro farming situation	Poultry
Details of technology identified for solution	<b>T1 : Farmer's practice (Use of local breed )</b> <b>T2 : Use of improved breed (Dual Purpose )</b>
No. of farmers	03
Replications	03
Critical inputs	Chicks (day old chicks ) 150
Production system	Poultry
Source of technology	IVRI , Izzatnagar, Bareilly
Observation to be recorded	<ul style="list-style-type: none"> <li>▪ No. of survived chicks &amp; growth rate</li> <li>▪ Cost: Benefit ratio</li> </ul>

## OFT- 13, & 14

<b>Crop/Enterprise</b>	:	<b>Nutritional Garden</b>
<b>Title</b>	:	Enhancing household food security through nutritional garden
<b>Problem diagnosed</b>	:	Malnutrition
<b>Farming situation</b>	:	Irrigated
<b>Thematic area</b>	:	Household food security
<b>Farmer's Practice</b>	:	Growing some leafy vegetables and cucurbits
<b>Possible solutions to be compared</b>		
<b>Treatment 1</b>	:	Growing seasonal vegetables (Local seed)
<b>Treatment 2</b>	:	Hybrid seed for seasonal vegetables
<b>No. of farmers</b>	:	05
<b>Plot Size</b>	:	100 m <sup>2</sup> x 5
<b>Critical Input</b>	:	Seed and saplings etc
<b>Observations to be recorded</b>	:	<ul style="list-style-type: none"><li>▪ Season-wise Yield</li><li>▪ Improvement in food behavior viz. leafy vegetables, salad, green vegetables</li><li>▪ Saving in monthly house hold expenditure</li><li>▪ C:B ratio</li></ul>
<b>Cost of each intervention</b>	:	Rs 250/-
<b>Total cost on OFT</b>	:	<b>250 x5 = Rs 1250/-</b>

**Season-wise** fruits and vegetables

**Kharif:** Lauki, Torai, Kheera, chilli, tomato, podina, bhindi, lobia, adrak,

**Rabi :** Leafy -palak, methi, dhania, french bean, Root - radish, carrot, turnip, beat root others: tomato, potato, chilli, garlic, onion

**Zaid :** podina, bhindi, gwar, choli, radish, tida, kheera, lauki, torai, brinjal chilli, tomato, lobia, arbi

**Fruits :** lemon, papaya, guava, karonda, banana

**Medicinal :** Tulsi

## OFT- 15 & 16

<b>Crop/Enterprise</b>	:	Pearl millet + Groundnut
<b>Title</b>	:	Impact of Wheat flour, pearl millet with groundnut Laddo to combat protein energy malnutrition among pre-school children
<b>Problem diagnosed</b>	:	Protein energy malnutrition among pre-school children Malnutrition
<b>Thematic area</b>	:	Women and child care
<b>Farmer's Practice Treatment 1</b>	:	Daily diet no use of supplementary food
<b>Possible solutions to be compared</b>		
<b>Treatment 2</b>	:	Baalahaar provided by Aanganwadi
<b>Treatment 3</b>	:	Wheat flour + Pearl millet + groundnut + Jaggery Laddu (100 gm serving/day /child/30 days)
<b>No. of Replications</b>	:	10
<b>Critical Input</b>	:	Wheat flour + Pearl millet + groundnut + Jaggery
<b>Observations to be recorded</b>	:	<ul style="list-style-type: none"><li>▪ Pre and post nutritional assessment</li><li>▪ Height</li><li>▪ Weight</li><li>▪ BMI</li><li>▪ Clinical assessment : Arm and chest circumference</li><li>▪ C:B ratio</li></ul>
<b>Total cost on OFT for two season</b>	:	<b>1000 x 2 = Rs 2000/-</b>

### 3.2 Frontline Demonstrations

#### A. Details of FLDs to be organized

Sl. No.	Crop/variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demo.	Parameters identified	
1	<b>Urdbean</b>	PU-31	ICM	ICM	Seed & Critical input	Kharif 2023	10.0	25	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
2	<b>Filed Pea</b>	IPFD10-12	ICM	ICM	Seed & Critical input	Rabi 2023-24	10.0	25	
3	<b>Lentil</b>	PL -9	ICM	ICM	Seed & Critical input	Rabi 2023-24	10.0	25	
4	<b>Mustard</b>	As per avail.	ICM	ICM	Seed & Critical input	Rabi 2023-24	20.0	50	
5	<b>Rice</b>	As per avail.	IPM	Use of Pymetrozine 50% WGR @ 300 gm/ha against BPH	Pymetrozine 50% EC @ 300 ml/ha	Kharif 2023	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
6	<b>Cucurbits</b>	As per avail.	IPM	Use of Pheromone trap against Fruit fly	Pheromone trap @ 20/ha	Kharif 2023	2.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
7	<b>Potato</b>	As per avail.	IDM	Use of Cymoxanil 8% + Mancozeb 64% against late blight	Cymoxanil 8% + Mancozeb 64% @ 1.25 kg/ha	Rabi 2023-24	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
8	<b>Chilli</b>	As per avail.	IPM	Use of Flubendiamide 39.35 % SC against chilli	Flubendiamide 39.35 % SC @ 125 ml /ha	Rabi 2023-24	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
9	<b>Maize</b>	As per avail.	Varietal evaluation	Use of improved varieties	Seed	Summer 2023	6.00	15	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
10	<b>Bajra</b>	As per avail.	Varietal evaluation	Use of improved varieties	Seed	Kharif 2023	4.00	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
11	<b>Onion</b>	Bhima Shakti	Varietal evaluation	Use of BhimaShakti	Seed	Rabi 2023-24	1.0	05	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
12	<b>Chilli</b>	HYVEG078	Varietal evaluation	Use of high yielding varietyHYVEG078	Seed	Kharif 2022	1.0	15	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
13	<b>Mentha</b>	Shivalik	INM	Foliar application of Sulphur (WDG)@ 03 gm/ltr after 60&75 DAS	Sulphur (WDG)	Rabi 2023-24	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
14	<b>Okra</b>	Kashi Lalima	Varietal evaluation	Use of improved	Seed	Summer 2022	1.2	10	Yield and yield attributes, Cost of



				varieties					Production, Gross Income, Net Profit & BC Ratio
15	Nutrition garden	As per avail.	Production potential technology	Household food security by nutrition garden	Seasonal vegetables & fruit saplings	Rabi, Kharif Zaid	0.05	15	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
16	Fruit and Veg. Preservation			Use of recommended ingredients & preservatives	Acetic acid, KMS (Potassium Meta bi sulphide), Sodium Benjoate, Seasonal fruits, vegetables, spices, oil, salt				
	Aonla products	Aonla	Value addition			Rabi		02	
	Tomato Chutney	Tomato	Value addition			Kharif		02	
	Seasonal vegetables	Seasonal vegetables	Value addition			Kharif		04	
						<b>Total</b>		<b>283</b>	

#### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	04	12	100
2	Farmers Training	15	12	300
3	Media coverage	26	12	Mass
4	Training for extension functionaries	02	12	20

#### C. Details of FLD on Enterprises

(i) Farm Implements:

(ii) Livestock Enterprises (Kharif & Rabi 2023)

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical input	Performance parameters / Indicators
Buffaloes	Crossbreed	10	10	Ivermectin Inj. 1 ml/50 kg body weight + Mineral mixture (Chileted) @ 50 gm/day for 20 days	No. of cured (treated) animals Cost: Benefit ratio
Buffaloes	Crossbreed	10	10	Ostocalcium syrup 50 ml/ day + Multi vitamins (Vimeral) @ 05 ml/day/animal	No. of cured (treated) animals Cost: Benefit ratio
Chicken	Broiler	10	4500	Vitamin & mineral mixture (Chileted) 200 gm/ q of feed	No. of cured (treated) Chicks Cost: Benefit ratio

### 3.3 Training (including the sponsored and FLD training programmes)

#### A) On Campus

Thematic Area	No. of courses	No. of participants						Grand Total
		Others			SC/ST*			
		Male	Female	Total	Male	Female	Total	
<b>A) Farmers &amp; Farm Women</b>								
<b>Plant Protection</b>								
IPM	03	60	-	60				60
IDM	01	20	-	20				20
Production of organic input	01	18	02	20				20
ICM	02	40	-	40				40
INM	01	20	-	20				20
<b>Animal Science</b>								
Feed management	03	60	-	60				60
Disease management	01	20	-	20				20
<b>Horticulture</b>								
Production Management technology of vegetable	03	60	-	60				60
Production Management technology on Medicinal Plant	01	20	-	20				20
<b>Crop Production</b>								
Production of organic input	01	20	-	20				20
ICM	02	40	-	40				40
INM	01	20	-	20				20
<b>Home Science</b>								
Importance of balance and high nutrient diet for adolescent girl	01	-	20	20				20
Storage loss minimization techniques	01	-	20	20				20
Value addition	01	-	20	20				20
Income generation activities for empowerment of rural women	01	-	20	20				20
Preservation of seasonal fruits and vegetables	01	-	20	20				20
<b>Total</b>	<b>25</b>	<b>398</b>	<b>102</b>	<b>500</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500</b>

## Off Campus

Thematic Area	No. of courses	No. of participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>B) Farmers &amp; Farm Women</b>								
<b>A) Farmers &amp; Farm Women</b>								
<b>Plant Protection</b>								
IPM	06	120	-	120				120
IDM	05	100	-	100				100
Bi-control of pests and diseases	02	40	-	40				40
<b>Crop Production</b>								
INM	02	40	-	40				40
Weed Management	01	20	-	20				20
ICM	07	140	-	140				140
Nursery management	01	17	03	20				20
Inter Cropping system	02	40	-	40				40
Resource conservation technology	01	20	-	20				20
Fodder management	01	20	-	20				20
<b>Animal Science</b>								
Feed management	04	80	-	80				80
Dairy management	02	40	-	40				40
Management of farm animals	02	40	-	40				40
Disease management	04	80	-	80				80
<b>Horticulture</b>								
Production Management technology of flowers	01	20	-	20				20
Production Management technology of MAP	01	20	-	20				20
Production Management technology of vegetable	02	40	-	40				40
Packaging and transport	01	20	-	20				20
Management and aftercare in fruit orchards	01	20	-	20				20
Nursery raising	03	60	-	60				60
Mulching in fruits	01	20	-	20				20
Water management	01	20	-	20				20

Exotic vegetables	01	20	-	20				20
Off season vegetables	01	20	-	20				20
Machan cultivation	01	20	-	20				20
<b>Home Science</b>								
Importance of balance and high nutrient diet for adolescent girl	01	-	20	20				20
Storage loss minimization techniques	02	-	40	40				40
Value addition	01	-	20	20				20
Income generation activities for empowerment of rural women	01	-	20	20				20
Preservation of seasonal fruits and vegetables	02	-	40	40				40
Women and childcare	01	-	20	20				60
<b>TOTAL</b>	<b>62</b>	<b>1077</b>	<b>163</b>	<b>1240</b>				<b>1240</b>

## B. RURAL YOUTH

Thematic Area	No. of courses	No. of participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>Crop Production</b>								
NADEP	01	10	-	10				10
Seed production	02	20	-	20				20
Vermi culture Production	01	10	-	10				10
<b>Plant Protection</b>								
Bee keeping	03	30	-	30				30
Mushroom Production	01	10	-	10				10
<b>Animal Science</b>								
Dairying	02	20	-	20				20
Poultry production	01	10	-	10				10
Goat rearing	01	10	-	10				10

<b>Horticulture</b>								
Nursery mgt. of horticultural crops	01	10	-	10				10
Protected cultivation	02	20	-	20				20
Neutaceutical rich veg. Production	01	10	-	10				10
<b>Home Science</b>								
Value addition	01	-	10	10				10
Tailoring and Stitching	01	-	10	10				10
Rural crafts	02	-	20	20				20
<b>TOTAL</b>	<b>20</b>	<b>160</b>	<b>40</b>	<b>200</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>200</b>

### C. EXTENSION FUNCTIONARIES

Thematic Area	No. of courses	No. of participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>Plant Protection</b>								
IPM	02	20	-	20				20
Bio-control	02	20	-	20				20
IDM	01	10	-	10				10
<b>Crop Production</b>								
Production and use of organic input	01	10	-	10				10
Productivity enhancement in field crops	01	10	-	10				10
Resource conservation technology	02	20	-	20				20
<b>Horticulture</b>								
Rejuvenation of orchard	01	10	-	10				10
Micro irrigation system	01	10	-	10				10
Low volume and high value vegetable production	01	10	-	10				10
Advances in vegetable production	01	10	-	10				10
<b>Home Science</b>								
Women and child care	04	-	40	40				40
Low cost and nutrient efficient diet design	01		10	10				10
<b>Total</b>	<b>18</b>	<b>130</b>	<b>50</b>	<b>180</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>180</b>

### D. SPONSORED TRAINING

Sponsoring Agency	No. of courses	No. of participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
Farmers technical Training	02							
Distt. Agri. Deptt.	20							
Farmers technical Training for women	01							
DHO	05							
IFFICO	05							
KRIBHCO	05							
NFL	08							
Soil Conservation	05							
NYK	02							

\* As per availability of the programme of concerned agency / deptt.

## CONSOLIDATED ON & OFF

A)

Thematic Area	No. of courses	No. of participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>A) Farmers &amp; Farm Women</b>								
<b>Plant Protection</b>								
IPM	09	180	-	180				180
IDM	06	118	02	120				120
Bi-control of pests and diseases	02	40	-	40				40
<b>Crop Production</b>								
Production of organic input	01	18	02	20				20
ICM	09	180	-	180				180
INM	03	60	-	60				60
Weed Management	01	20	-	20				20
Nursery management	01	17	03	20				20
Inter Cropping system	02	40	-	40				40
Resource conservation technology	01	20	-	20				20
Fodder management	01	20	-	20				20
<b>Horticulture</b>								
Production Management technology of flowers	01	20	-	20				20
Production Management technology of MAP	03	60	-	60				60
Production Management technology of vegetable	04	80	-	80				80
Packaging and transport	01	20	-	20				20
Management and aftercare in fruit orchards	01	20	-	20				20
Nursery raising	03	60	-	60				60
Production Management technology of fruit	02	40	-	40				40
Mulching in fruits	01	20	-	20				20
Water management	01	20	-	20				20
Exotic vegetables	01	20	-	20				20
Off season vegetables	01	20	-	20				20
Machan cultivation	01	20	-	20				20
<b>Animal Science</b>								
Feed management	07	140	-	140				140
Dairy management	01	20	-	20				20
Disease management	01	20	-	20				20
Dairy management	01	20	-	20				20
Management of farm animals	02	40	-	40				40
Disease management	04	80	-	80				80

<b>Home Science</b>								
Importance of balance and high nutrient diet for adolescent girl	03	-	60	60				60
Storage loss minimization techniques	03	-	60	60				60
Value addition	03	-	60	60				60
Income generation activities for empowerment of rural women	02	-	40	40				40
Preservation of seasonal fruits and vegetables	03	-	60	60				60
Women and childcare	01	-	20	20				60
<b>Total</b>	<b>87</b>	<b>1433</b>	<b>307</b>	<b>1740</b>				<b>1740</b>

## B. RURAL YOUTH

Thematic Area	No. of courses	No. of participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>Crop Production</b>								
NADEP	01	10	-	10				10
Seed production	02	20	-	20				20
Vermi culture Production	01	10	-	10				10
<b>Plant Protection</b>								
Bee keeping	03	30	-	30				30
Mushroom Production	01	10	-	10				10
<b>Animal Science</b>								
Dairying	02	20	-	20				20
Poultry production	01	10	-	10				10
Goat rearing	01	10	-	10				10
<b>Horticulture</b>								
Nursery mgt. of horticultural crops	01	10	-	10				10
Protected cultivation	02	20	-	20				20
Neutaceutical rich veg. Production	01	10	-	10				10
<b>Home Science</b>								
Value addition	01	-	10	10				10
Tailoring and Stitching	01	-	10	10				10
Rural crafts	02	-	20	20				20
<b>TOTAL</b>	<b>20</b>	<b>160</b>	<b>40</b>	<b>200</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>200</b>

### C. EXTENSION FUNCTIONARIES

Thematic Area	No. of courses	No. of participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>Plant Protection</b>								
IPM	02	20	-	20				20
Bio-control	02	20	-	20				20
IDM	01	10	-	10				10
<b>Crop Production</b>								
Production and use of organic input	01	10	-	10				10
Productivity enhancement in field crops	01	10	-	10				10
Resource conservation technology	02	20	-	20				20
<b>Horticulture</b>								
Rejuvenation of orchard	01	10	-	10				10
Micro irrigation system	01	10	-	10				10
Low volume and high value vegetable production	01	10	-	10				10
Advances in vegetable production	01	10	-	10				10
<b>Home Science</b>								
Women and child care	04	-	40	40				40
Low cost and nutrient efficient diet design	01		10	10				10
<b>Total</b>	<b>18</b>	<b>130</b>	<b>50</b>	<b>180</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>180</b>
<b>Grand Total (A+B+C)</b>	<b>125</b>	<b>1853</b>	<b>447</b>	<b>2120</b>				<b>2120</b>

### 3.4 Extension Activities

Nature of Extension activity	Date	No. of activities	Farmers			Extension Officials			Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
Field day		10									Mass
KisanMela		01									Mass
KisanGhosthi		15									Mass
Exhibition		01									Mass
Film show		30									Mass
Method demonstration		04									Mass
Lectures delivered		40									Mass
News paper coverage		50									Mass
Radio talks		18									Mass
TV talks		10									Mass
Literature developed		06									Mass



Popular articles		06								Mass
Advisory services		1800								Mass
Scientist visit to farmers field		340								Mass
Farmers visit to KVK		1400								Mass
Animal health camp		01								Mass
Farm science club		01								Mass
Exposure visit		108								Mass
Krishak Samman divas		01								Mass
Self Help Group		01								Mass
Farmers technical training		03								150
Total		<b>3846</b>								

### 3.5 Target for Production and supply of Technological products Jan. to Dec. 2023

#### Seed

Sl. No	Crop	Variety*	Qty targeted (q)	Distributed to Farmers
<b>A</b>	<b>Cereals</b>			
1	Wheat	DBW-39 HD-2967	400	
<b>C</b>	<b>Pulses</b>			
1	Urd	PU-31	50	
	<b>Total</b>		<b>450 q</b>	

#### Planting Material

Sl.	Crop	Variety	Quantity (Nos.)
1.	Papaya	As per availability	100
2.	Vegetable saplings	As per availability	2000
3.	Flower saplings	As per availability	15900
4.	Hybrid napier suckers	As per availability	2000
		<b>Total</b>	<b>21000</b>

### 3.6 Literature to be Developed / Published

#### A) KVK News letter -

#### B) Literature developed

S. No.	Topic	No.	Name of Journal/literature
1	Research paper by each scientist	02	
2	Technical reports	06	
3	News letters	-	

4	Training manual all discipline	03	
5	Popular article	06	
6	Extension literature	06	
		<b>Total</b>	

**C) Details of Electronic media to be produced - -**

**3.7 Success stories/ Case studies identified for development as a case**

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a)
- b)
- c)

**Rural Youth**

- a)
- b)
- c)

**In-service personnel**

- a)
- b)

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

**For FLD :**

- v) New variety/technology
- vi) Poor yield at farmers level
- vii) Existing cropping system
- viii) Others if any

**3.10 Field activities**

- i. Name of villages identified/adopted with block name (from which year) -
- ii. No. of farm families selected per village :
- iii. No. of survey/PRA conducted :
- iv. No. of technologies taken to the adopted villages
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

**3.11. Activities of Soil and Water Testing Laboratory**

**Status of establishment of lab:            Established**

**1. Year of establishment:    Dec. 2007**

## 2. List of equipment purchased with amount :

Sl.	Name of the equipment	Qty.	Cost. (Rs.)
1	Digital Conductivity meter	01	8750.00
2	Mechanical shaker	01	52700.00
3	Grinder	01	23252.40
4	Single Pan balance	01	87000.00
5	Lab Hot air oven	01	14500.00
6	Refrigerator	01	12000.00
7	Microscope	01	4600.00
8	Kjeldahl Digestion unit	02	6700.00
9	Kjeldahl Digestion unit	02	15000.00
10	Spectro Photometer	01	106500.00
11	Phalem photometer	01	33430.00
12	pH meter	01	30350.00
13	Water distillation unit	01	85000.00
14	Heating plate	01	8200.00
15	Physical balance	01	11990.00

### 1. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	1500	750	35	75000.00
Total	1500	750	35	75000.00

## 4.0 Linkages

### 4.1 Functional linkage with different organizations

Sl.	Name of organization	Nature of linkage
1	IARI, New Delhi, DMR, New Delhi, DWR, Karnal, NDRI, Karnal, IVRI, Bareilly, CARI, Barielly, IIVR, Varansi, DRR, Hyderabad, DOR, Hyderabad, NRC Mustard, Bharatpur, PDCSR, Meerut, CPRI, Meerut, CSAUA&T, Kanpur, NDU&T, Faizabad	Information about New/ Recent technologies/ varieties/ research on different aspects for improvement in the production of the area. Farmers exposure visit and other extension activities.
2	Line Departments: Agriculture, Horticulture, Fisheries, Veterinary, Co-operative and Cane Department	Diagnostic survey/Extension Activities, Training /Meeting, animal health & infertility camp.
3	Research Station Ujhani	Research/ Training/Meeting
4	IFFCO/KRIBHCO/ TATA / RALLIS/ MULTIPLEX etc	Training/Meeting extension activities. Joint diagnostic survey & strengthening, infra-structure
5	ATMA& NHM	Training/Meeting, extension activities, Demonstrations & Adaptive trials
6	Lead Bank / NABARD	Training/Gosthi, Field days, Farmers club and Extension activities

## 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district - YES

Sl. No.	Programme	Nature of linkage	Remarks
1.	Training programme	Farmers training & Kisan Gosthi Farmer's Scientist interaction	Up gradation of technical knowledge Identification of field problems and their solutions

4.3 Give details of programmes under National Horticultural Mission

4.4 Nature of linkage with National Fisheries Development Board - N.A.

5.0 Utilization of hostel facilities -

Months	No. of programme	Trainee days (Days stayed)
January to December 2023	As per line department necessities	

6.0 Convergence with departments :

7.1. Details of the programmes being implemented by your KVK in partnership with other institution

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
1				

7.2. Brief achievements of above collaborative programmes

S. No.	Name of Programme	Salient achievement	Impact of the programme
1			

8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	TSP Project		
2	ARYA Project		
3	CFLD-NFSM Project		
	i. Kharif season	Urd 20ha 50 demo. & Seasum 10 ha 25 demo.	
	ii. Rabi season	Mustard & Lentil 10 ha & 25 demo. Each	
	iii. Summer season		
4	CSISA Project		
5	NICRA Project		
6	Soil Health Card		
7	Other (please specify) CRM		
	Poshan Maha Programme		
	Total		

**9. Feedback of the farmers about the technologies demonstrated and assessed :**

- Improved variety and integrated crop management increase the yield of field pea as well as income of the farmers.
- Improved variety and integrated crop management increase the yield of lentil as well as income of the farmers.

**10. Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :**

- Use of improved variety and integrated crop management helps in growth & development of Field pea and Lentil resulted in higher production of crop.

## Annexure – I

### Detail of Training Programme (Practicing farmers and Farm women)

#### i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Plan protection</b>										
Feb. 18, 2023	PF	Safe use of pesticide	1	18	2	20	-	-	-	20
May 10, 2023	PF	Management of shoot fly in Maize	1	20	-	20	-	-	-	20
Aug. 8, 2023	PF	Die back management in Chilli	1	18	2	20	-	-	-	20
Dec.19, 2023	PF	Integrated management of late blight in Potato	1	19	1	20	-	-	-	20
<b>Crop Production</b>										
April 7, 2023	PF	Use and importance of green manuring	1	18	2	20	-	-	-	20
July 3, 2023	PF	Production techniques of Bio-fertilizer Azola	1	18	2	20	-	-	-	20
Oct 6, 2023	PF	Production technique of Mustard	1	20	-	20	-	-	-	20
Feb 18, 2023	PF	Production of vermin-compost	1	20	-	20	-	-	-	20
<b>Horticulture</b>										
Jan.7, 2023	PF	Production technique of marigold	1	20	-	20	-	-	-	20
June 15, 2023	PF	Importance and production techniques of medicinal and aromatic plants	1	20	-	20	-	-	-	20
Aug.6, 2023	PF	Improved production techniques of hybrid Capsicum	1	20	-	20	-	-	-	20
Oct 1, 2023	PF	Improved production technology of garlic	1	20	-	20	-	-	-	20
<b>Livestock prod.</b>										
Jan.7, 2023	PF/FW	Effect of parasites on animal productivity	1	20	-	20	-	-	-	20
April 9, 2023	PF/FW	Balance feed management of crossbred cows	1	20	-	20	-	-	-	20
July 12, 2023	PF	Importance of mineral mixture in animals	1	20	-	20	-	-	-	20
Dec.20, 2023	PF/FW	Importance of balance diet for animals	1	20	-	20	-	-	-	20
<b>Crop Production</b>										
Feb 18, 2023	PF	Production technique of Summer maize	1	20	-	20	-	-	-	20
April 8, 2023	PF	Use and importance of green manuring	1	20	-	20	-	-	-	20
July 3, 2023	PF	Integrated nutrient management in paddy	1	20	-	20	-	-	-	20
Oct 7, 2023	PF	Production technique of Mustard	1	20	-	20	-	-	-	20
<b>Home Science</b>										
June 17-18, 2023	PF	Skill training on preservation of seasonal fruits and vegetables	1	-	20	20	-	-	-	20
Aug. 18-19, 2023	PF	Preparation of household articles with different craft techniques	1	-	20	20	-	-	-	20
Aug. 18-19, 2023	PF	Preparation of household articles with different craft techniques	1	-	20	20	-	-	-	20
Nov. 19-20, 2023	PF	Nutritional deficiency disease, their remedies and nutritional management and low cost nutritious diet	1	-	20	20	-	-	-	20
Feb. 10-11, 2023	PF	Household food security by nutrition gardening	1	-	20	20	-	-	-	20

#### i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Plant Protection</b>										
Feb. 11, 2023	PF	IPM of fruit borer in tomato	1	20	-	20	-	-	-	20
Feb. 16, 2023	PF	IPM of cucurbit vegetables	1	20	-	20	-	-	-	20
March 12, 2023	PF	Thrips managements in onion	1	20	-	20	-	-	-	20
April 23,	PF	Management of stem borer in maize	1	20	-	20	-	-	-	20

2023										
June 18, 2023	PF	Management of bihar hairy caterpillar in Urd	1	20	-	20	-	-	-	20
June 29, 2023	PF	Bio-control of top borer in sugarcane	1	20	-	20	-	-	-	20
Aug. 6, 2023	PF	Pyrilla management in sugarcane	1	20	-	20	-	-	-	20
Aug. 20, 2023	PF	Management of yellow stem borer in rice	1	20	-	20	-	-	-	20
Sept. 4, 2023	PF	BPH management in Rice crop	1	20	-	20	-	-	-	20
Nov. 1 , 2023	PF	Integrated management of aphid in mustard	1	20	-	20	-	-	-	20
Nov.5, 2023	PF	Biological control of termite in Rabi crops	1	20	-	20	-	-	-	20
Dec. 4, 2023	PF	Management of Cut worm in potato	1	20	-	20	-	-	-	20
<b>Crop Production</b>										
Jan. 13, 2023	PF	Production techniques in Mentha cultivation	1	20	-	20	-	-	-	20
Feb. 4, 2023	PF	Importance of intercropping in crop production	1	20	-	20	-	-	-	20
Feb. 12, 2023	PF	Use of Ghanjeebamarth as fertilizer	1	20	-	20	-	-	-	20
March 9, 2023	PF	Production techniques of fodder crops	1	20	-	20	-	-	-	20
April 19, 2023	PF	Importance of summer ploughing	1	20	-	20	-	-	-	20
May 14, 2023	PF	Use of Azola as biofertilizer in hybrid rice	1	20	-	20	-	-	-	20
June 19, 2023	PF	Production technology of Urd	1	20	-	20	-	-	-	20
June 25, 2023	PF	Role of timely application in rice crop	1	20	-	20	-	-	-	20
July 10, 2023	PF	Production techniques of Bajra	1	20	-	20	-	-	-	20
July 16, 2023	PF	Nursery management & transplantation in paddy	1	20	-	20	-	-	-	20
July 22, 2023	PF	Weed management in Kharif crops	1	20	-	20	-	-	-	20
Sept. 4, 2023	PF	Production techniques of Potato	1	20	-	20	-	-	-	20
Oct. 2, 2023	PF	Intercropping in winter sugarcane	1	20	-	20	-	-	-	20
Oct. 16, 2023	PF	Lentil production technology	1	20	-	20	-	-	-	20
Nov.6 , 2023	PF	Importance of micronutrient in oilseed crops	1	20	-	20	-	-	-	20
<b>Live Stock Production</b>										
Jan. 12, 2023	PF	Mastitis and udder infection in milch animals : Causes and prevention	1	20	-	20	-	-	-	20
Feb.12 , 2023	PF	Management of female animals for better production	1	20	-	20	-	-	-	20
Feb. 24, 2023	PF	Foot and mouth disease in cattle : symptoms and control	1	20	-	20	-	-	-	20
April 23, 2023	PF	Measure infectious and contagious diseases in animals: causes, symptoms and their remedies	1	20	-	20	-	-	-	20
May 03, 2023	PF	Role of colostrum for health of new born animals	1	20	-	20	-	-	-	20
May 13, 2023	PF	Feed supplement for better production in large animals	1	20	-	20	-	-	-	20
Aug. 09, 2023	PF	Feeding management of backyard poultry	1	20	-	20	-	-	-	20
Aug. 13, 2023	PF	Infectious diseases in animals and their remedies	1	20	-	20	-	-	-	20
Sept. 7, 2023	PF	Balance ration formulation for milch animal	1	20	-	20	-	-	-	20
Nov.6, 2023	PF	Diet management in newly born calves of cows & buffalos	1	20	-	20	-	-	-	20
Nov. 8 , 2023	PF	Infectious disease from animals to human : Causes and remedies	1	20	-	20	-	-	-	20
Dec. 4, 2023	PF	Management of hybrid cows	1	20	-	20	-	-	-	20
<b>Horticulture</b>										
Jan. 2, 2023	PF	Off season production of vegetables	1	20	-	20	-	-	-	20
Feb. 15, 2023	PF	Use of mulching in fruit crops	1	20	-	20	-	-	-	20
Feb. 17, 2023	PF	Improved production technique of okra	1	20	-	20	-	-	-	20
March 11, 2023	PF	Proper packaging & transport of fruit & vegetable crops	1	20	-	20	-	-	-	20
April 3, 2023	PF	Judicious use of irrigation water in horticultural crops	1	20	-	20	-	-	-	20

April 24, 2023	PF	Nursery raising of rainy season vegetables	1	20	-	20	-	-	-	20
May 1, 2023	PF	Crop regulation in guava	1	20	-	20	-	-	-	20
May 27, 2023	PF	Cucurbits cultivation on machan	1	20	-	20	-	-	-	20
June 5, 2023	PF	Production technique of Okra	1	20	-	20	-	-	-	20
June 7, 2023	PF	Production technique of Dragon fruit	1	20	-	20	-	-	-	20
July 3, 2023	PF	Scientific cultivation of Banana	1	20	-	20	-	-	-	20
July 5, 2023	PF	Virus free nursery raising of veg. crops	1	20	-	20	-	-	-	20
July23, 2023	PF	Improved technique of nursery raising in capsicum	1	20	-	20	-	-	-	20
Sept. 10, 2023	PF	Production techniques of exotic vegetables	1	20	-	20	-	-	-	20
Oct.08, 2023	PF	Production technique of onion	1	20	-	20	-	-	-	20
Oct. 14, 2023	PF	Production techniques of commercial flowers	1	20	-	20	-	-	-	20
Nov.25, 2023	PF	Improved production technique of Mentha	1	20	-	20	-	-	-	20
<b>Home Science</b>										
April 30, 2023	PF	Income generation activities for rural women strengthening self help group	1	-	20	20	-	-	-	20
May 15, 2023	PF	Importance of balance food during childhood improving nutritative value of food	1	-	20	20	-	-	-	20
June 29, 2023	PF	Malnutrition : Causes and remedies dietary planning within limited resources	1	-	20	20	-	-	-	20
July 2, 2023	PF	Vegetable production in nutrition garden	1	-	20	20	-	-	-	20
Aug.20, 2023	PF	Income generation activities for rural women strengthening self help group	1	-	20	20	-	-	-	20
Sept. 13, 2023	PF	Clean milk production and value addition to milk	1	-	20	20	-	-	-	20
Sept. 28, 2023	PF	Safe grain storage	1	-	20	20	-	-	-	20
Nov. 26, 2023	PF	Importance of balance diet and immunization for children	1	-	20	20	-	-	-	20
Dec. 7, 2023	PF	Value addition to aonla	1	-	20	20	-	-	-	20
Dec. 19, 2023	PF	Value addition to seasonal fruits and vegetables significant for home scale preservation	1	-	20	20	-	-	-	20
Dec. 18, 2023	PF	Efficient management of household waste	1	-	20	20	-	-	-	20
Jan.17, 2023	PF	Clean milk production and value addition to milk	1	-	20	20	-	-	-	20
Feb. 22, 2023	PF	Women and child care during different physiological conditions	1	-	20	20	-	-	-	20
March 25, 2023	PF	Value addition to seasonal fruits and vegetables significant for home scale preservation	1	-	20	20	-	-	-	20
March 28, 2023	PF	Safe grain storage	1	-	20	20	-	-	-	20

*ii) Vocational training programmes for Rural Youth*

Crop / Enterprise	Identified Thrust Area	Training title*	Date	Duration (days)	No. of Participants			SC/ST participants			Grand Total
					M	F	Total	M	F	T	
Honey Bee	Beneficial enterprise of farmer	Bee Keeping and their Management	Feb.22-26, 2023	5	10	-	10	-	-	-	10
Goat	Beneficial enterprise of farmer	Goat farming : profitable enterprises	Jan.11-15, 2023	5	10	-	10	-	-	-	10
Nursery growing	Availability of poor quality plant material	Nursery growing for livelihood	Feb. 2-6, 2023	5	10	-	10	-	-	-	10
Vermi compost	Low organic matter in soil	Vermi compost production technology	Feb.15-19 2023	5	10	-	10	-	-	-	10



Honey Bee	Beneficial enterprise of farmer	Bee keeping & their management	June 14-18, 2023	5	10	-	10	-	-	-	10
Buffalo	Low milk yield and poor health	Feeding and management of dairy animals	June 7-11, 2023	5	10	-	10	-	-	-	10
Commercial Flower	Low yield and poor quality of flowers	Protected cultivation of Flowers	June 14-18, 2023	5	10	-	10	-	-	-	10
Nadep	Low organic matter in soil	Preparation and manufacturing of Nadep compost	May 17-21, 2023	5	10	-	10	-	-	-	10
Paddy	Unavailability of quality seed	Seed production technology in paddy	July 12-16, 2023	5	10	-	10	-	-	-	10
Honey Bee	Beneficial enterprise of farmer	Bee Keeping and their Management	Aug. 16-20, 2023	5	10	-	10	-	-	-	10
Buffalo	Low milk yield	Role of mineral mixture and vitamins in milch animals	Aug., 2-6, 2023	5	10	-	10	-	-	-	10
Commercial Flower	Low yield and poor quality of flowers	Cut flower production for livelihood	Sept. 1-5, 2023	5	10	-	10	-	-	-	10
Soil Testing	Unawareness of balance nutrition	Soil testing	Sept. 16-20, 2023	5	10	-	10	-	-	-	10
Wheat	Unavailability of quality seed	Technology of seed production in wheat	Nov. 8-12, 2023	5	10	-	10	-	-	-	10
Mushroom	Beneficial enterprise of farmer	Production technology of mushroom	Oct. 12-16, 2023	5	10	-	10	-	-	-	10
Poultry	Beneficial enterprise of farmer	Poultry production and management	Nov. 16-20, 2023	5	10	-	10	-	-	-	10
vegetable production	Low yield and poor quality of vegetables	Low cost polyhouse and low tunnel for vegetable production	Oct. 19-23, 2023	5	10	-	10	-	-	-	10

### iii) Training programme for extension functionaries

Date/ Month	Clientele	Title	Dura. in days	No. of participants			No. of SC/ST			Grand Total
				M	F	Total	M	F	Total	
Jan. 6, 2023	In service	IPM and their importance	1	10	-	10	-	-	-	10
March 6, 2023		Buffalo rearing is a profitable enterprise	1	10	-	10	-	-	-	10
Feb. 03, 2023		Advance technologies in vegetable production	1	10	-	10	-	-	-	10
March 16, 2023		Efficient water management techniques for increasing the productivity of crops	1	10	-	10	-	-	-	10
June 21, 2023		IDM in rice crop	1	10	-	10	-	-	-	10
June 3, 2023		Improving nutritive value of dry fodder by treating with urea	1	10	-	10	-	-	-	10
May 10, 2023		Drip irrigation in horticultural crops	1	10	-	10	-	-	-	10
May 18, 2023		IPNM approach in pulse production	1	10	-	10	-	-	-	10

Aug. 14, 2023	Importance of bio control in pest management	1	10	-	10	-	-	-	10
Sept. 12, 2023	Problem and control of sterility in animals	1	10	-	10	-	-	-	10
Sept. 18, 2023	Production of low volume and high value vegetables crops	1	10	-	10	-	-	-	10
Sept. 2, 2023	Introduction and cultivation of medicinal plants	1	10	-	10	-	-	-	10
Dec. 21, 2023	IPM in Rabi crops	1	10	-	10	-	-	-	10
Dec. 20, 2023	Vaccination in farm animals	1	10	-	10	-	-	-	10
Dec. 3, 2023	Rejuvenation of old mango orchard	1	10	-	10	-	-	-	10
Oct. 18, 2023	Improved technologies of natural resource management in agriculture	1	10	-	10	-	-	-	10



# **ACTION PLAN**

*January – December, 2023*



## **KRISHI VIGYAN KENDRA DATATGANJ, BADAUN-II**

# Action Plan

(January to December 2023)

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail	Website
KVK Dataganl, Badaun	Office	FAX	Kvkbadaun2@gmail.com	<a href="https://badaun2.kvk4.in">https://badaun2.kvk4.in</a>
	-	-		

### 1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website
	Office	FAX		
Vice Chancellor, S.V.P.U.A. & T., Meerut	-	-	svbptuat_meerut@indiatimes.com	<a href="http://www.svbpm Meerut.ac.in">www.svbpm Meerut.ac.in</a>

### 1.3 Name of the Programme Coordinator with Phone & Mobile No.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. T.B. Yadav	-	9411287939	drtbyadav16@gmail.com

### 1.4. Year of sanction: 15.03.2018

### 1.5. Staff Position (as on July. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Recent photograph
1	Subject Matter Specialist's Office - In charge	Dr. T. B. Yadav	Subject Matter Specialist	Animal Science	15600-39100	8000.00		09.07.1995	Permanent	OBC	9411287939	drtbyadav16@gmail.com	
2	Subject Matter Specialist***	Dr. Phool Chand	Subject Matter Specialist	Soil Science	15600-39100	8000.00	89800.00	02.09.2008	Permanent	OBC	7983506461	drphoolchand65@gmail.com	
3	Subject Matter Specialist	Dr. Pankaj Kumar Meghwal	Subject Matter Specialist	Agri. Extn EEE	15600-39100	5400.00	56100.00	04.07.2022	Permanent	GEN	8257043416	pankaj_00982@yahoo.com	

4	Subject Matter Specialist	Dr. ShubhamAr ya	Subject Matter Specialist	Agromy	15600-39100	5400.00	56100.00	06.07.2022	Permanent	OBC	9012388383	Shubhamarya 516@gmail.com	
5	Subject Matter Specialist	Dr. Satpal Singh	Subject Matter Specialist	PP	15600-39100	5400.00	56100.00	06.07.2022	Permanent	GEN	9760985914	Satpal.singh1794@gmail.com	
6	Subject Matter Specialist	Dr. Tankit Kumar	Subject Matter Specialist	H.Sc.	15600-39100	5400.00	56100.00	11.07.2022	Permanent	OBC	7289889408	Tankitjaat4801@gmail.com	
7	Prog. Asstt / F.M.	Dr. Mukesh Kumar	Prog. Asstt / F.M.	Plant Br	9300-34800	4600	55200	26.07.2008	Permanent	GEN	9415587611	dr.mk.kr@gmail.com	
8	Stenographer	Irtaza Khan	Jr. Clk.	-					Permanent	Others	9412668048	bituitazakhan@gmail.com-	
9	Driver	Satendra	Driver	-	5200-20200		31400		Permanent	OBC	9456959660	-	
10	Supporting Staff	Riyasat	Mali	-					Permanent	Others	9917405005	-	

**1.6. Total land with KVK (in ha) : 12.15 ha**

S. No.	Item	Area (ha)
1	Under Buildings	Nil
2.	Under Demonstration Units	Nil
3.	Under Crops	Nil
4.	Forest	Nil
5.	Pond	Nil
6.	Others if any	Nil
<b>TOTAL</b>		<b>12.15 ha</b>

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage						Required New	Needs renovation
			Complete			Incomplete				
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq. m)	Status of construction		
1.	Administrative Building	ICAR						Under Construction		
2.	Farmer's Hostel	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	01	
3.	Staff Quarters (6)	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	16 staff quarters	
4.	Demonstration Units (2)	ICAR	Nil	Nil	Nil	Nil	Nil	Nil		
5	Fencing	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	3000R/M	
6	Rain Water harvesting system	ICAR	Nil	Nil	Nil	Nil	Nil	Nil		
7	Threshing floor	ICAR	Nil	Nil	Nil	Nil	Nil	Nil	01	
8	Farm go down	ICAR	- Nil	Nil	Nil	Nil	Nil	Nil	01	

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	Required replacement
Bolero jeep UP-24 G0504	2022			Working	-
Motorcycle	Nil	Nil	Nil	Nil	2
Cycle	Nil	Nil	Nil	Nil	2

**C) Equipments & AV aids: Nil**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status	Required replacement

**1.8. A). Details of SAC meetings to be conducted in the year**

Sl.No.	Date
1. Scientific Advisory Committee	09/12/2021

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	Agriculture + Horticulture + Animal Husbandry
2.	Agriculture + Animal Husbandry + Horticulture
3.	Agriculture + Animal Husbandry + Poultry
4.	Agriculture + Horticulture + Animal Husbandry + Poultry

### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

#### a) Topography

S. No.	Agro ecological situation	Characteristics
1	AES-I	It represents the Mid Western Plain Zone of the district having light soil with medium fertility, medium rainfall and most suited for paddy, wheat, potato, sugarcane, Bajra as well as guava cultivation. Out of 8 development blocks of Badaun district. It covers four blocks viz. Dataganj, Samrer, MeonandUsawan
2	AES-II	It represents the Mid Western Plain Zone of the district with loamy soil having medium fertility, medium rain fall, suited for all type of crops viz. wheat, sugarcane, paddy, Bajra as well as vegetable crops due to proximity to the city. It covers five blocks viz. Jagat, Qadarchowk, Salarpur and Wajirganj.

### 2.3 Soil Types

Sl. No	Soil type	Characteristics	Area (ha )
1	Clay Loam	It is more fertile than sandy and sandy loam	2558
2	Sandy Soil	Sandy soil is dominated and having low status of NPK.	224480
3	Sandy Loams	It is more fertile than sandy soil	199730

### 2.4 Area, Production and Productivity of major crops cultivated in the district

S. No.	Crop	Area (ha)	Production (Qt.)	Productivity (Qt. /ha)
<b>A</b>	<b>FIELD CROPS INCLUDING OIL SEEDS AND PULSES</b>			
1	Wheat	232327	772345	33.24
2	Gram	68	75	11.11
3	Pea	836	1774	21.22
4	Mustard /Torla	35071	52417	14.95
5	Lentil	3842	5379	14.00
6	Paddy	78127	178254	22.82
7	Bajra	99882	185962	18.62
8	Maize	8024	16653	20.75

9	Arhar	503	492	9.79
10	Groundnut	525	620	11.80
11	Moong	126	68	5.40
12	Sugarcane	26891	1560108	580.16
<b>B</b>	<b>VEGETABLES</b>			
1.	Potato	12104	214664	177.35
2.	Tabacco	706	3912	55.45
3.	Turmeric	250	715	28.61

Source: District agriculture department.

### 2.5. Weather data

S. No	Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
			Maximum	Minimum	
1	January -2022	21	20.5	8.4	69
2	February	34	24.1	11.4	62
3	March	17	30.3	15.9	47
4	April	13	36.8	21.5	30
5	May	16	38.7	25.2	37
6	June	102	37.1	27.1	53
7	July	279	32.6	26.2	77
8	August	237	31.8	25.7	81
9	September	138	31.4	24.0	79
10	October	21	31.0	19.1	64
11	November	6	27.2	14.2	58
12	December	10	22.4	9.6	64

(Source: <https://en.climate-data.org/asia/india/uttar-pradesh/budaun-24734/>)

### 2.7. Population of livestock, Poultry, Fisheries etc. in the district

Category	Population
Cattle	
Crossbred	10561
Indigenous	22945
Buffalo	40590
Sheep	15930
Goats	22975
Crossbred	9350
Indigenous	35730
Poultry	159725

\*Statistical report



Category	Population
Fish	-
Marine	-
Inland	-
Prawn	-
Scampi	-
Shrimp	-

\*Statistical report

### 2.7 Details of Operational area / Villages

S.No.	Name of the Block
1.	Wazirganj
2.	Salarpur
3.	Jagat
4.	Kadar Chowk
5.	Samarer
6.	Dataganj
7.	Meow
8.	Usawan



## 2.8 Priority thrust areas

Crop/Enterprise	Thrust area
Agriculture	Diversification (Crops, Horticultural crops, Bee Keeping, Mushroom Production etc.)
Crops	Imbalance nutrition, Soil testing and INM
Soil	Low organic carbon
Fruit crops	Poor management /Elite quality planting material
Mango orchard	Poor management, Rejuvenation , IPM and IDM
Guava orchrd	IPM, IDM & Crop regulation
Capsicum / Chilli	HYVs, IPM, IDM & Nutrition management
Potato	INM & IDM
Cole crops	HYVs & IPM
Cucurbits	HYVs & IPM
Paddy	ICM, IPM & IDM
Maize	INM & HYVs
Bajra	HYVs & ICM
Urd	ICM & IPM
Mustard	ICM
Wheat	INM & Weed Management
Sugarcane	ICM, IPM , IDM and Intercropping
Farming	Organic farming
Empowerment	Women empowerment
PHM	Post harvest management of food grains, seed, fruit, vegetables, milk and milk products.
IFS	Integrated Farming System for doubling farmers income
RCTs	Promoting Resource conservation technologies
Buffalo	Poor management, Balanced feeding in livestock
Cattle	Lack of improved indigenous breeds
Poultry	Poor nutrition and disease management
Crop/Enterprise	Thrust area

**1. TECHNICAL PROGRAMME**

**3. A. Details of targeted mandatory activities by KVK**

<b>OFT</b>		<b>FLD</b>	
<b>(1)</b>		<b>(2)</b>	
<b>Number of OFTs</b>	<b>Number of Farmers</b>	<b>Area (ha)</b>	<b>Number of Farmers</b>
<b>10</b>	<b>50</b>	<b>28</b>	<b>150</b>

<b>Training</b>		<b>Extension Activities</b>	
<b>(3)</b>		<b>(4)</b>	
<b>Number of Courses</b>	<b>Number of Participants</b>	<b>Number of activities</b>	<b>Number of participants</b>
<b>105</b>	<b>1750</b>	<b>465</b>	<b>9300</b>
<b>01 (Sponsored)</b>	<b>50</b>		

<b>Seed Production (Qtl.)</b>	<b>Planting material Production (Nos.)</b>	<b>Fish seed prod. (Nos.)</b>	<b>Soil Samples to be analyzed (Nos.)</b>	<b>Development of Soil Health Cards (Nos.)</b>
<b>(5)</b>	<b>(6)</b>	<b>(7)</b>	<b>(8)</b>	<b>(9)</b>
-	-	-	-	-

<b>Quality seed distributed (q)</b>	<b>No. of saplings to be distributed (Nos.)</b>	<b>No. of fingerlings distributed (Nos.)</b>	<b>No. of livestock &amp; poultry strains distributed (Nos.)</b>
<b>(10)</b>	<b>(11)</b>	<b>(12)</b>	<b>(13)</b>
-	-	-	-

### 3. B. Abstract of interventions to be undertaken

S · N o	Thrust area	Crop/ Enter prises	Identifie d Problem	Interventions					
				Title of OFT if any	Titl e of FL D if any	Title of Training if any	Title of trainin g for extensi on person nel if any	Extensio n activitie s	Supply of seeds, planting materials etc.
1	Integrat ed Crop Manag ement (ICM)	Ground nut	1.Non use of HYV seeds 2.Non use of sulphur& PP chemical s	-	FL D- Oils eed	Advance prod. Tech. of Groundnut	Advanc e prod. Tech	Pre. Sowing Trg. Meet. And Field day	HYV Seed@100kg/ha, Mancozeb+carbenda zim@1.25kg/ha, Imidaclorid@0.25ltr/ ha chlorpyriphos@4.0ltr /ha, Trichoderma@5 kg/ha
2	ICM	Til	1.Non use of HYV seeds 2.Non use of sulphur& PP chemical s	-	FL D- Oils eed	Advance Prod.Tech. ofTil	Advanc e prod.Te ch	Pre. Sowing Trg. Meet. And Field day	HYV Seed@ 5 kg/ha, Mancozeb+carbenda zim@1.25kg/ha, Quanalphose @ 2.5 ltr/ha, Trichoderma@5kg/h a,
3	ICM	Urd	1.Non use of HYV seeds 2.Non use of sulphur& non use of weedicide	-	FL D- Puls es	Advance prod.Tech. ofUrd	Advanc e prod.Te ch	Pre. Sowing Trg. Meet. And Field day	HYV@15 kg/ha, Mancozeb+carbenda zim@1.25kg/ha,Imid achloprid @ 0.25 ltr/ha, Quanalphose @ 2.5 ltr/ha, Trichoderma@5kg/h a
4	ICM	Musta rd	1.Non use of HYV seeds 2.Non use of sulphur& PP chemical s	-	FL D- Oils eed	Advance prod.Tech. ofToria	Advanc e prod.Te ch	Pre. Sowing Trg. Meet. And Field day	HYV Seed 5.0 kg/ha B.Sulphur @ 25 Kg/ha., Mancozeb+carbenda zim @ 1.250kg/ha Imidachloprid @ 0.25L/ha

5	ICM	Lentil	Non use of HYV seed, Non use of sulphur & PP chemicals	-	FL D Pulses	Advance prod. Tech. of Lentil	Advance prod. Tech. of Lentil	----do--- ---	HYV Seed 35 kg/ha Carbendazim+Mancozeb @ 1.250 kg/ha Imidachloprid @ 0.250 L/ha
6	IPM	tomato	Non use of PP Chemical		Man gt. of fruit borer	Advance prod. Tech. of Potato	Advance prod. Tech. of Potato	----- do-----	Thiomethoxam 25WG @ 1g/5lit water
7	Promotion of self employment	Mushroom Prod., Seed prod. Value addition, Tailoring Backyard Poultry	Need to develop self employment	-	-	Production Technology/Skill	Mushroom Prod., Seed prod. Value addition, Tailoring,	Training /Demos.	Training material as per need of the training/ 20 Birds/Demo
8	Nutrition Kitchen Gardening	HYV	Household Food Security	-	-	-	-	-	--

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	02				01		01			04
Value addition						01				01
Integrated Pest Management				01						01
Integrated Disease Management	01									01
Small Scale income generating enterprises						01				01
<b>TOTAL</b>	<b>03</b>			<b>01</b>	<b>01</b>	<b>02</b>	<b>01</b>			<b>08</b>

**A.2. Abstract on the number of technologies to be refined in respect of crops : NIL**

**A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises**

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Nutrition Management	01							01
Production and Management	01							01
<b>TOTAL</b>	<b>02</b>							<b>02</b>

**A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises**

## **B. Details of On Farm Trial**

### **1. OFT(Plant protection)**

Particulars	Contents
<b>Title</b>	Management in blight of potato
<b>Problem diagnosed</b>	Low yield of potato due to high infestation of blight
<b>Micro farming situation</b>	Irrigated and loam soil
<b>Details of technology identified for solution</b>	Treatment 1 :Dithane M45 @ 1.0 Kg/ha Treatment 2 :Metalaxil@ 05.Kg/ha
<b>No. of farmers</b>	05
<b>Replications</b>	03
<b>Critical inputs</b>	Metalaxil@ 05.Kg/ha
<b>Production system</b>	Maize-Potato
<b>Source of technology</b>	GPUA&T Pantnagar
<b>Total Cost</b>	Rs..5000.00
<b>Observation to be recorded</b>	I. a. Percentage of Infested crop b. Yield (q/ha) II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio
<b>Reaction of the farmers</b>	

## 2. OFT (Plant protection)

Particulars	Contents
<b>Title</b>	Yellow Stem borer management in Paddy
<b>Problem diagnosed</b>	Low yield of Paddy due to severe attack of stem borer
<b>Micro farming situation</b>	Irrigated and Sandy loam soil
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Monocrotophos 36 SL @ 1 lit/ha <b>Treatment 2</b> : Fipronil 0.3 % @ 25 kg/ha
<b>No. of farmers</b>	05
<b>Replications</b>	03
<b>Critical inputs</b>	FipronilandCartap hydrochloride
<b>Production system</b>	Rice-Wheat
<b>Source of technology</b>	ICAR (DRR, Hyderabad)
<b>Total Cost</b>	Rs. 5000.00
<b>Observation to be recorded</b>	I. a. Percentage of dead heart b. Yield (q/ha) II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio
<b>Name of Scientist</b>	Dr. SP Singh (SMS, Plant Protection)

## 3.OFT (soil Science)

Particulars	Contents
<b>Title</b>	Micronutrient deficiency management in Paddy
<b>Problem diagnosed</b>	Low yield due to micronutrient deficiency (Zn, Fe, Boron)
<b>Micro farming situation</b>	Irrigated and Sandy loam soil
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Farmers Practice (ZnSO <sub>4</sub> @ 15 kg/ha) <b>Treatment 2</b> : 2 spray (40 & 55 DAT) of 0.25% ZnSO <sub>4</sub> + 0.25% FeSO <sub>4</sub> + 0.20% Boron
<b>No. of farmers</b>	05
<b>Replications</b>	03
<b>Critical inputs</b>	ZnSO <sub>4</sub> , FeSO <sub>4</sub> , Boron
<b>Production system</b>	Rice – wheat
<b>Source of technology</b>	SVPUA&T., Meerut

<b>Total Cost</b>	<b>Rs. 5000.00</b>
<b>Observation to be recorded</b>	I. Yield and yield attributes II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio
Name of Scientist	Dr. Phool Chand(SMS, Soil Science)

#### 4.OFT (soil Science)

<b>Crop/Enterprises</b>	<b>Wheat</b>
Title of on-farm trial	Assessment of organic & inorganic sources of nutrients in wheat
Problem diagnosed	Low yield due to imbalance use of nutrients
Production system and thematic area	
Farming situation	Irrigated and Sandy loam soil
Farmer's practices	Farmers practice (N-150 , P <sub>2</sub> O <sub>5</sub> – 55 kg/ha)
Details of technology selected for assessment/refinement	N: P: K (120:60:45 kg/ha) +Azotobacter @ 2.0 kg/ha + PSB @ 2.0kg/ha
Source of technology	G.B.P.U.A.&T., Pantnagar
No. of farmers	05
Replications/No. of locations	03
Critical input	Azotobacter, PSB
Performance indicators i ) Technical ii ) Economic iii) Social	
Cost if each location	
Total Cost of OFT	
Name of Scientist	Dr. Phool Chand (SMS, Soil Science)

#### 5. OFT on Varietal evaluation of Wheat:

<b>Crop/Enterprises</b>	<b>Wheat</b>
Title of on-farm trial	Evaluation of <b>hybrid variety of</b> Wheat
Problem diagnosed	Low yield & heavy infestation of yellow rust due to use of old/traditional variety
Production system and thematic area	Sugarcane-Wheat-Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Farmers Practice (2967)
Details of technology selected for assessment/refinement	T2-DBW 187
Source of technology	SVPDAT, Meerut
No. of farmers	05 (Area- 0.4 * 5 = 2.0 ha.)
Replications/No. of locations	02
Critical input	Wheat seed (DBW 187)



Performance indicators i ) Technical ii ) Economic iii) Social	No. of Plants per sq/meter Total yield/ha, disease occurrence income B.C. ratio
Cost if each location	2000/-
Total Cost of OFT	10000/-
Name of Scientist	Dr. ShubhamArya (SMS Agronomy)

#### 6. OFT on Varietal Evaluation of Basmati :

Crop/Enterprises	Paddy
Title of on-farm trial	Varietal evaluation of Basmati
Problem diagnosed	Low yield & heavy blast and use of old/traditional variety
Production system and thematic area	Sugarcane-Wheat-Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Local (1121)
Details of technology selected for assessment/refinement	T2- Pusa Basmati 1637
Source of technology	SVPUAT Meerut
No. of farmers	05 (Area- 0.4 * 5 = 2.0 ha.)
Replications/No. of locations	02
Critical input	Seed (Pusa Basmati 1637)
Performance indicators i ) Technical ii ) Economic iii) Social	No. of Plants per sq/meter Total yield/ ha, disease occurrence income B.C. ratio
Cost if each location	600/-
Total Cost of OFT	3000/-
Name of Scientist	Dr. ShubhamArya(SMS, Agronomy)

#### 7. Assessment of Urea Molasses Mineral Block

Crop/Enterprises	Cattle
Title	Assessment of Urea Molasses Mineral Block supplementation on Milk Production and Reproductive Performance in Lactating Cattle
Problem diagnosed	Low milk yield and infertility due to imbalance nutrients
Farming situation	Mixed farming
Thematic area	Mixed farming and feed and fodder management
Farmer's practices	Conventional method ( Use of choker and common salt)
Details of technology selected for assessment/refinement	
T1	Farmer's practice (Use of choker and common salt)
T2	UMMB supplementation (Licking) @ 300 to 400g/day/animal for 120 days
No of families	05 (One animal in each farmer)

Critical Inputs	UMMB 40 kg/animal for 120 days = 40 X 05 = 200 kg = 100 Block ( 2 kg in each block) = 100 X 100 Rs/Block) = 100 X 100 Rs/Block = 10000.00 Rs
Observation to be recorded	i ) Technical - Estrus cycle (days) - Conception rate % - concentrate saving ( kg&Rs.) ii ) Economic - Milk Yield ( Kg/lit) - C:B ratio iii) Social - Farmer's reaction
Total Cost of OFT	Rs 5000/-
Name of Scientist	Dr. T.B. Yadav (Scientist, Animal Science)

### 8. OFT on Repeat Breeding:

Crop/Enterprises	Buffalo
Title	Assessment of clinical and non-clinical remedies in controlling repeat breeding
Problem diagnosed	Higher incidences of repeat breeding
Farming situation	Crop production and Animal husbandry
Thematic area	Disease (disorder) management
Farmer's practices	Use of choker and common salt
Details of technology selected for assessment/refinement	
T1	Farmer's practice (Use of choker and common salt)
T2	Mineral Mixture @ 50 g/d/animal for 45 days + inj. Receptal 2.5x2= 5 ml (72-96 hrs before AI)
No of families	05
Critical Inputs	Concentrate Feed, Mineral mixture and clinical drugs
Observation to be recorded	1. No. of cured animals 2. Cost: benefit ratio
Total Cost of OFT	Rs 9000/-
Name of Scientist	Dr. T.B. Yadav (Scientist, Animal Science)

### 9. OFT on Supplementary food:

Crop/Enterprises	Supplementary food
Title of on-farm trial	Evaluation of home nutrition supplementary food on health of infants/ babies
Problem diagnosed	Low body weight and height of below 03 years baby due to malnutrition / under nutrition
Production System and thematic area	Design and development of low cost and high nutrition efficient diet
Situation	-
Farmer's practices	T1- No feeding of Supplementary foods
Details of technology selected for assessment/refinement	T2- Supplementary food having amylase (ARF) germinated wheat + germinated moong bean + Sugar (10:05:05)

Source of technology	NIN, Hyderabad
No. of farmers	05
Critical Inputs	Supplementary food
Performance indicators i ) Technical ii ) Economic iii) Social	i ) Technical - Weight for height - Weight for age - Height for age ii ) Economic - Comparision with market available Supplementary foods iii) Social - Acceptability of Technology
Cost of each intervention	Rs1000/-
Total Cost of OFT	05X1000=5000.00
Name of Scientist	Dr. Tankit Kumar (SMS, Home Science)

**10. OFT On fortification of Wheat flour with processed soya bean daal protein supplementary food.**

Crop/Enterprises	Fortification of Wheat flour with Soy Protein
Title of on-farm trial	Evaluation of fortified ( processed soya bean daal + Wheat ) flour in daily diet of rural people
Problem diagnosed	Protein calorie mal nutrition among rural people
Production System and thematic area	Design and development of low cost and high nutrition efficient diet
Farmer's practices	T1 –low consumption of protein in daily diet
Details of technology selected for assessment/refinement	T2- Use of fortified (processed soya bean daal + Wheat) flour (1:9 ratio )
Source of technology	CIAE, Bhopal
No. of farmers	10
Critical Inputs	Soya bean grain
Performance indicators i ) Technical  ii ) Economic  iii) Social	i ) Technical - Weight for height - Weight for age - Haemoglobin level - Digestibility ii) Economic -comparison with market available supplementary food ( multi grain flour ) iii) Social - Acceptability of Technology - Feasibility of Technology
Cost of each intervention	Rs1500
Total Cost of OFT	05X1500= 7500.00
Name of Scientist	Dr. Tankit Kumar (SMS, Home Science)

### 3.1 Frontline Demonstrations

#### A- CFLD

Crop/	variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demo.	Parameters identified
<b>Mustard</b>	RGM 73/PUSA.M - 27,28,29/RH749	ICM	Bentonitesulphur 25kg/ha,carbendazim+mancozeb 1.25kg/ha+weedicides	Seed, Bentonitesulphur, carbendazim+mancozeb, weedicides	Rabi 2022-2023	10.0	25	Yield CB Ratio no of grains per/pod
<b>Lentil</b>	PL-8, HUL-57	ICM	Bentonitesulphur 25kg/ha,carbendazin+mancozeb 1.25kg/ha+weedicides	Seed, Bentonitesulphur, carbendazim+mancozeb, weedicides	Rabi 2022-2023	10.0	25	Yield CB Ratio no of grains per/pod

#### B. FLD other than oil seed & Pulses

Sl. No.	Crop/	variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demo.	Parameters identified
1	<b>Paddy</b>	Naredera-359	INM	Foliar application of ZnSO <sub>4</sub> +FeSO <sub>4</sub> +Boron	ZnSO <sub>4</sub> , FeSO <sub>4</sub> , Boron	Kharif 2022	4.0	10	Yield and Cost of Production, Gross Income, Net Profit & B:C Ratio
2	<b>Paddy</b>	PB-1	IPM	<a href="#">Validamycin @1.0 L/ha + Carbendazim @1.0 kg/ha</a>	Validamycin, Carbendazim	Kharif 2022	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
3	<b>Paddy</b>	PB-1509	Management of blast	Tricyclazole @500 gm/ha	Tricyclazole	Kharif 2022	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
4	<b>Paddy</b>	PHB-71/ Arize 6444	ICM	Seed	Seed	Kharif 2022	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
5	<b>Wheat</b>	PBW-550	INM	Application of bio-fertilizer	Azotobacter & PSB	Rabi 2022-23	4.00	10	Yield and Cost of Production, Gross Income, Net Profit & B:C Ratio
6	<b>Wheat</b>	DBW-187/H D-3226/D BW-222	ICM	Seed	Seed	Rabi 2022-23	4.00	10	Yield and Cost of Production, Gross Income, Net Profit & B:C Ratio

7	<b>Mentha</b>	Sim, Pragati	INM	Bentonitesulphur @25kg/ha	Bentonitesulphur	Zaid 2023	4.0	10	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
	<b>Total</b>						28	70	

### C. Details of FLD on Enterprises

#### (i) Farm Implements: -

#### (ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / Indicators
Dairy					
1. To control post calving anoestrus due to Endo parasitic infestation	Buffalo	25	50	Fenbendazole 3g + Ivermectin 100 mg /Buffalo/one dose Cost: Rs76/Animal, Total Rs. 3800.00	1. Milk production 2. Animal respond 3. Animal conceived 4. Service period
2. To enhance milk production and breeding efficiency through use of mineral mixture	Buffalo	15	30	Min. Mix. 50gm/Animal/day For 40days Cost: Rs. 550/Animal Total Rs. 5500.00	1. Milk production 2. Animal respond 3. Animal conceived 4. Service period 5. CB ratio

#### (iii) FLD Home Science

Particulars	Needed materials	No of demonstration	Area
Nutrition gardening	Vegetables seeds and 50kg vermin-compost manure	30	50 <sup>2</sup> meter
Mushroom Cultivation technique	Span, Compost and Chemicals	10	-

### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	4	January to December 2023	200
2	Farmers Training	2	January to December 2023	100
3	Media coverage	4	January to December 2023	Mass
4	Training for extension functionaries	2	January to December 2023	50

### 3.3 Training (including the sponsored and FLD training programmes)

#### D) ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	18	-	18	02	-	02	20
Cropping Systems	02	36	-	36	04	-	04	40
Water management	01	18	-	18	02	-	02	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Off-season vegetables	01	18	0	18	02	0	02	20
Nursery raising	01	18	0	18	02	0	02	20
<b>b) Fruits</b>								
Management of young plants/orchards	01	18	0	18	02	0	02	20
Micro irrigation systems of orchards	01	18	0	18	02	0	02	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	04	72	0	72	08	0	08	80
<b>IV Livestock Production and Management</b>								
Disease Management	02	36	-	36	04	-	04	40
Feed management	02	36	-	36	04	-	04	40
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	18	18	-	02	02	20
Design and development of low/minimum cost diet	01	-	18	18	-	02	02	20
Designing and development for high nutrient efficiency diet	02	-	36	36	-	04	04	40
Storage loss minimization techniques	01	-	18	18	-	02	02	20
Income generation activities for empowerment of rural Women	01	-	18	18	-	02	02	20
Women and child care	02	-	36	36	-	04	04	40
<b>VI Plant Protection</b>								
Integrated Pest Management	01	18	-	18	02	-	02	20
Integrated Disease Management	02	36	-	36	04	-	04	40
Bio-control of pests and diseases	01	18	-	18	02	-	02	20
<b>VII Production of Inputs at site</b>								
Vermi-compost production	01	18	-	18	02	-	02	20
Organic manures production	01	18	-	18	02	-	02	20
<b>VIII Capacity Building and Group Dynamics</b>								
Leadership development	01	18	-	18	02	-	02	20
Formation and Management of SHGs	01	18	-	18	02	-	02	20
<b>IX Others (Ag. Extension)</b>								
Formation and management of FPO	01	18	-	18	02	-	02	20
Importance of ICTs in agriculture	01	18	-	18	02	-	02	20
<b>X Others (Farm Management)</b>								
Scientific cultivation techniques of Mentha	01	18	-	18	02	-	02	20
Recycling of Organic Wastes.	01	18	-	18	02	-	02	20
Seed Production techniques of Paddy	01	18	-	18	02	-	02	20
Dashparni extract method of preparation and its uses in crops	01	18	-	18	02	-	02	20
Seed production technology of Cauliflower	01	18	-	18	02	-	02	20
Agnishtra (Hot Preparation) method of preparation and its uses in crops	01	18	-	18	02	-	02	20
Seed production technology of wheat	01	18	-	18	02	-	02	20
<b>TOTAL</b>	<b>40</b>	<b>594</b>	<b>144</b>	<b>738</b>	<b>66</b>	<b>16</b>	<b>82</b>	<b>820</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	02	16	0	04	04	0	04	20
Production of organic inputs	01	08	0	08	02	0	02	10

Vermi-culture	02	16	0	16	04	0	04	20
Nursery Management of Horticulture crops	02	16	0	16	04	0	04	20
Value addition	01		08	08	-	02	02	10
Dairying	01	08	0	08	02	0	02	10
Sheep and goat rearing	01	08	0	08	02	0	02	10
Poultry production	01	08	0	08	02	0	02	10
Post Harvest Technology	02	-	16	16	-	04	04	20
Other (Entrepreneurship)	01	08	0	08	02	0	02	10
Other (ICTs)	01	08	0	08	02	0	02	10
Other (Natural Farming)	01	08	-	08	02	-	02	10
Other (Medicinal and aromatic plants)	01	08	-	08	02	-	02	10
Other (Soil Testing)	01	08	-	08	02	-	02	10
<b>TOTAL</b>	<b>18</b>	<b>120</b>	<b>24</b>	<b>132</b>	<b>30</b>	<b>6</b>	<b>36</b>	<b>180</b>
<b>G. Total</b>	<b>58</b>	<b>714</b>	<b>168</b>	<b>870</b>	<b>96</b>	<b>22</b>	<b>118</b>	<b>1000</b>

#### E) OFF Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	0	36	04	0	04	40
Resource Conservation Technologies	02	36	0	36	04	0	04	40
Water management	01	18	0	18	02	0	02	20
Integrated Crop Management	03	54	0	54	06	0	06	60
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	02	36	0	36	04	0	04	40
Integrated Nutrient Management	01	18	0	18	02	0	02	20
Management of Problematic soils	01	18	0	18	02	0	02	20
Micro nutrient deficiency in crops	01	18	0	18	02	0	02	20
Nutrient Use Efficiency	01	18	0	18	02	0	02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	01	18	0	18	02	0	02	20
Poultry Management	01	18	-	18	02	-	02	20
Disease Management	04	72	0	72	08	0	08	80
Feed management	02	36	0	36	04	0	04	40
<b>V Home Science/Women empowerment</b>								
Designing and development for high nutrient efficiency diet	01	0	18	18	0	02	02	20
Minimization of nutrient loss in processing	01	0	18	18	0	02	02	20
Value addition	03	0	54	54	0	06	06	60
Income generation activities for empowerment of rural Women	01	0	18	18	0	02	02	20
<b>VI Plant Protection</b>								
Integrated Pest Management	02	36	0	36	04	0	04	40
Integrated Disease Management	01	08	0	08	02	0	02	10
Bio-control of pests and diseases	02	36	0	36	04	0	04	40
<b>VII Capacity Building and Group Dynamics</b>								
Leadership development	01	18	0	18	02	0	02	20
Formation and Management of SHGs(Ext.)	01	18	0	18	02	0	02	20
<b>VIII Others (Ag. Extension)</b>								
Awareness about FasalBimaYojana	01	18	0	18	02	0	02	20
Awareness about PM-KISAN Scheme	01	18	0	18	02	0	02	20
Importance of natural farming	01	18	0	18	02	0	02	20
Importance of mobile communication technologies in agriculture	01	18	0	18	02	0	02	20
<b>IX Others (Farm Management)</b>								
Technique of Mushroom cultivation.	01	18	-	18	02	-	02	20
Seed Processing & Storage technology of rabi crops.	01	18	-	18	02	-	02	20
Establishment and Preparation of planting pits for orchards.	01	18	-	18	02	-	02	20
Preparation of Beejamrit and its uses	01	18	-	18	02	-	02	20
Planning & budgeting of Farms	01	18	-	18	02	-	02	20

Dashparni extract method of preparation and its uses in crops	01	18	-	18	02	-	02	20
Preparation of Neemastra and its uses in crop	01	18	-	18	02	-	02	20
Importance & benefits of Organic farming.	01	18	-	18	02	-	02	20
Seed production technology of wheat	01	18	-	18	02	-	02	20
Scientific cultivation of Rose	01	18	-	18	02	-	02	20
<b>TOTAL</b>	<b>49</b>	<b>764</b>	<b>108</b>	<b>872</b>	<b>86</b>	<b>12</b>	<b>98</b>	<b>970</b>
<b>(B) Extension Personnel</b>								
Productivity enhancement in field crops	04	40	0	40	04	0	04	40
Integrated Pest Management	02	20	0	20	02	0	02	20
Integrated Nutrient management	02	18	0	18	02	0	02	20
Formation and Management of SHGs	01	08	0	08	02	0	02	10
Management in farm animals	02	20	0	20	04	0	04	20
Livestock feed and fodder production	02	20	0	20	04	0	04	20
Household food security	01	0	8	8	0	02	02	10
Women and Child care	01	0	8	8	0	02	02	10
Low cost and nutrient efficient diet designing	01	0	8	8	0	02	02	10
Organic manure production	01	08	0	08	02	0	02	10
Formation and management of Farmer Production Organization	01	08	0	08	02	0	02	10
Organic farming	01	08	0	08	02	0	02	10
<b>Total</b>	<b>19</b>	<b>150</b>	<b>24</b>	<b>174</b>	<b>24</b>	<b>6</b>	<b>30</b>	<b>190</b>
<b>G.Total</b>	<b>68</b>	<b>914</b>	<b>132</b>	<b>1046</b>	<b>110</b>	<b>18</b>	<b>128</b>	<b>1160</b>

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	03	54	0	54	06	0	06	60
Resource Conservation Technologies	03	54	0	54	06	0	06	60
Water management	02	36	0	36	04	0	04	40
Nursery management	01	18	0	18	02	0	02	20
Integrated Crop Management	03	54	0	54	06	0	06	60
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Others (Micro irrigation systems in vegetable crops)	01	18	0	18	02	0	02	20
<b>b) Fruits</b>								
Cultivation of Fruit	02	36	0	36	04	0	04	40
Management of young plants/orchards	01	18	0	18	02	0	02	20
Rejuvenation of old orchards	01	18	0	18	02	0	02	20
<b>c) Ornamental Plants</b>								
Nursery Management	01	18	0	18	02	0	02	20
Propagation techniques of Ornamental Plants	01	18	0	18	02	0	02	20
<b>d) Spices</b>								
Production and Management technology	01	18	0	18	02	0	02	20
<b>e) Medicinal and Aromatic Plants</b>								
Post harvest technology and value addition	01	18	0	18	02	0	02	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	06	108	0	108	12	0	12	120
Integrated Nutrient Management	01	18	0	18	02	0	02	20
Management of Problematic soils	01	18	0	18	02	0	02	20
Micro nutrient deficiency in crops	01	18	0	18	02	0	02	20
Nutrient Use Efficiency	01	18	0	18	02	0	02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	01	01	18	0	18	02	0	20
Poultry Management	01	18	0	18	02	0	02	20
Rabbit Management/goat	01	18	0	18	02	0	02	20
Disease Management	06	108	0	108	12	0	12	120
Feed management	03	54	0	54	06	0	06	60
<b>V Home Science/Women empowerment</b>								



Household food security by kitchen gardening and nutrition gardening	01	0	18	18	0	02	02	20
Design and development of low/minimum cost diet	01	0	18	18	0	02	02	20
Designing and development for high nutrient efficiency diet	03	0	54	54	0	06	06	60
Minimization of nutrient loss in processing	01	0	18	18	0	02	02	20
Gender mainstreaming through SHGs								
Storage loss minimization techniques	01	0	18	18	0	02	02	20
Value addition	03	0	54	54	0	06	06	60
Income generation activities for empowerment of rural Women	01	0	18	18	0	02	02	20
Women and child care	02	0	36	36	0	04	04	40
<b>VI Plant Protection</b>								
Integrated Pest Management	03	54	0	54	06	0	06	60
Integrated Disease Management	03	54	0	54	06	0	06	60
Bio-control of pests and diseases	03	54	0	54	06	0	06	60
<b>VII Production of Inputs at site</b>								
Vermi-compost production	01	18	0	18	02	0	02	20
Organic manures production	01	18	0	18	02	0	02	20
<b>VIII Capacity Building and Group Dynamics</b>								
Leadership development	02	36	-	36	04	-	04	40
Formation and Management of SHGs	02	36	-	36	04	-	04	40
<b>IX Others (Ag. Extension)</b>								
Awareness about FasalBimaYojana	01	18	-	18	02	-	02	20
Awareness about PM-KISAN Scheme	01	18	-	18	02	-	02	20
Importance of natural farming	01	18	-	18	02	-	02	20
Importance of mobile communication technologies in agriculture	01	18	-	18	02	-	02	20
Formation and management of FPO	01	18	-	18	02	-	02	20
Importance of information and communication technologies in agriculture	01	18	-	18	02	-	02	20
<b>XIII Others (Farm Management)</b>								
Scientific cultivation techniques of Mentha	01	18	-	18	02	-	02	20
Recycling of Organic Wastes.	01	18	-	18	02	-	02	20
Seed Production techniques of Paddy	01	18	-	18	02	-	02	20
Dashparni extract method of preparation and its uses in crops	01	18	-	18	02	-	02	20
Seed production technology of Cauliflower	01	18	-	18	02	-	02	20
Agnishtra (Hot Preparation) method of preparation and its uses in crops Seed	01	18	-	18	02	-	02	20
Seed production technology of wheat	01	18	-	18	02	-	02	20
Technique of Mushroom cultivation.	01	18	-	18	02	-	02	20
Seed Processing & Storage technology of rabi crops.	01	18	-	18	02	-	02	20
Establishment and Preparation of planting pits for orchards.	01	18	-	18	02	-	02	20
Preparation of Beejamrit and its uses	01	18	-	18	02	-	02	20
Planning & budgeting of Farms	01	18	-	18	02	-	02	20
Dashparni extract method of preparation and its uses in crops	01	18	-	18	02	-	02	20
Preparation of Neemastra and its uses in crop	01	18	-	18	02	-	02	20
Importance & benefits of Organic farming.	01	18	-	18	02	-	02	20
Seed production technology of wheat	01	18	-	18	02	-	02	20
Scientific cultivation of Rose	01	18	-	18	02	-	02	20
<b>TOTAL</b>	<b>94</b>	<b>1441</b>	<b>252</b>	<b>1674</b>	<b>178</b>	<b>28</b>	<b>186</b>	<b>1880</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	02	16	0	16	04	0	04	20
Production of organic inputs	01	08	0	08	02	0	02	10

Vermi& NADEP compost Production	01	09	-	09	01	-	01	10
Value addition	01	08	08	08	0	02	02	10
Dairying	01	08	-	08	02	-	02	10
Sheep and goat rearing	01	08	-	08	02	-	02	10
Post Harvest Technology	02	-	16	16	-	04	04	20
Other(Entrepreneurship)	01	08	0	08	02	0	02	10
Other (ICTs)	01	08	0	08	02	0	02	10
Others (Natural Farming)	01	08	-	08	02	-	02	10
Others (Medicinal and aromatic plants)	01	08	-	08	02	-	02	10
Others (Soil Testing)	01	09	-	09	01	-	01	10
<b>TOTAL</b>	<b>14</b>	<b>90</b>	<b>24</b>	<b>144</b>	<b>20</b>	<b>6</b>	<b>26</b>	<b>140</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	04	40	0	40	04	0	04	40
Integrated Pest Management	02	20	0	20	02	0	02	20
Integrated Nutrient management	02	20	-	20	02	-	02	20
Formation and Management of SHGs	01	08	0	08	02	0	02	10
Management in farm animals	02	20	0	20	02	0	02	20
Livestock feed and fodder production	02	20	0	20	02	0	02	20
Household food security	01	0	08	08	0	02	02	10
Women and Child care	01	0	08	08	0	02	02	10
Low cost and nutrient efficient diet designing	01	0	08	08	0	02	02	10
Organic manure production	01	08	0	08	02	0	02	10
Formation and management of Farmer Production Organization	01	08	0	08	02	0	02	10
Organic farming	01	08	0	08	02	0	02	10
Use of Biofertilizer	01	09	-	09	01	-	01	10
<b>TOTAL</b>	<b>20</b>	<b>161</b>	<b>24</b>	<b>185</b>	<b>21</b>	<b>6</b>	<b>27</b>	<b>200</b>
<b>G. Total</b>	<b>128</b>	<b>1692</b>	<b>300</b>	<b>2003</b>	<b>219</b>	<b>40</b>	<b>239</b>	<b>2220</b>

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	04	170	10	180	20	-	20	190	10	200
KisanGhoshi	10	400	20	420	30	-	30	430	20	450
Group meetings	02	24	-	24	6	-	6	30	-	30
Lectures delivered as resource persons	20	2000	200	2200	100	-	100	2100	200	2300
Newspaper coverage	12	-	-	-	-	-	-	-	-	Mass
Radio talks	02	-	-	-	-	-	-	-	-	Mass
TV talks	02	-	-	-	-	-	-	-	-	Mass
Popular articles	05	-	-	-	-	-	-	-	-	Mass
Extension Literature	04	-	-	-	-	-	-	-	-	Mass
<b>Advisory Services</b>	<b>80</b>	<b>160</b>	<b>20</b>	<b>180</b>	<b>10</b>	<b>-</b>	<b>10</b>	<b>170</b>	<b>20</b>	<b>190</b>
Scientist visit to farmers field	46	80	20	100	10	-	10	90	20	110
Farmers visit to KVK	40	80	20	100	10	-	10	90	20	110
Diagnostic visits	08	30	05	35	05	-	05	35	05	40
Celebration of important days (Farm Innovators day)	05	200	30	230	20	-	20	220	30	250
<b>Total</b>	<b>240</b>	<b>3144</b>	<b>325</b>	<b>3469</b>	<b>211</b>	<b>0</b>	<b>211</b>	<b>3355</b>	<b>325</b>	<b>3680</b>

## 2.6 (A) Literature to be Developed/Published : 04 (4000)

### (B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	02
3	News letters	-
4	Training manual all discipline	-
5	Popular article	05
6	Extension literature	04
	<b>Total</b>	<b>13</b>

### 3.8 Indicate the specific training need analysis tools/methodology followed for

#### ➤ **Practicing Farmers**

- Based on survey and group discussion
- Feed back from farmers/farm women
- Based on local resources and prevailing farming system

#### ➤ **Rural Youth**

- Based on need assessment through PRA techniques
- Need based, location specific analysis

#### ➤ **In-service personnel**

- Based on demand on the requirement of the concerned organization
- Based on knowledge gap and feedback information from in service personnel

### 3.9 Indicate the methodology for identifying OFTs/FLDs

#### **For OFT :**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

#### **For FLD :**

- ix) New variety/technology
- x) Poor yield at farmers level
- xi) Existing cropping system
- xii) Others if any

### 3.10 Field activities

- i. Name of villages identified/adopted with block name (from which year) :03
- ii. No. of farm families selected per village : 61
- iii. No. of survey/PRA conducted : 61
- iv. No. of technologies taken to the adopted villages:
- v. Name of the technologies found suitable by the farmers of the adopted villages
- vi. Impact (production, income, employment, area/technological horizontal/vertical
- vii. Constraints if any in the continued application of these improved technologies

### 4.0 Linkages

#### 4.1 Functional linkage with different organizations

Sl.	Name of organization	Nature of linkage
1	IARI, New Delhi, DMR, New Delhi, DWR, Karnal, NDRI, Karnal, IVRI, Bareilly, CARI, Barielly, IIVR, Varansi, DRR, Hyderabad, DOR, Hyderabad, NRC Mustard, Bharatpur, PDCSR, Meerut, CPRI, Meerut, CSAUA&T, Kanpur, NDUA&T, Faizabad	Information about New/ Recent technologies/ varieties/ research on different aspects for improvement in the production of the area. Farmers exposure visit and other extension activities.
2	Line Departments: Agriculture, Horticulture, Fisheries, Veterinary, Co-operative and Cane Department	Diagnostic survey/Extension Activities, Training /Meeting, animal health & infertility camp.
3	Research Station Ujhani	Research/ Training/Meeting
4	IFFCO/KRIBHCO/ TATA / RALLIS/ MULTIPLEX etc	Training/Meeting extension activities. Joint diagnostic survey & strengthening, infra-structure
5	ATMA, NHM, UPSRLM & ICDS	Training/Meeting, extension activities, Demonstrations & Adaptive trials
6	Lead Bank / NABARD	Training/Gosthi, Field days, Farmers club and Extension activities

## Training Programme

### i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
13.02.2023	PF	Integrated Water management in crops	01	18	-	18	2	-	2	20
15.03.2023	PF	Integrated Weed Management in Crops	01	18	-	18	2	-	2	20
17.05.2023	PF	Direct seed and SRI Production technology	01	18	-	18	2	-	2	20
04.10.2023	PF	Natural Farming	01	18	-	18	2	-	2	20
<b>Livestock production</b>										
13.01.2023	PF/FW	HS & BQ disease in animals, their symptoms and control	01	18	-	18	02	-	02	20
19.05.2023	PF/FW	Importance of minerals in animal feeds and their management	01	18	-	18	02	-	02	20
23.08.2023	PF	Care and feeding mgt. of newly born calf and heifer .	01	18	-	18	02	-	02	20
18.10.2023	PF/FW	FMD in animals its symptoms and control	01	18	-	18	02	-	02	20
<b>Agril. Extension</b>										
07.02.2023	PF	Importance of information and communication technologies in agriculture	01	18	-	18	02	-	02	20
18.04.2023	PF	Procedure for formation of new SHGs, CIGs	01	18	-	18	02	-	02	20
08.08.2023	PF	Leadership development	01	18	-	18	02	-	02	20
23.10.2023	PF	Formation and management of FPO	01	18	-	18	02	-	02	20
<b>Home Sc.</b>										
09.01. 2023	PF	Anemia deficiency & vitamins role	01	-	18	18	-	02	02	20
11.02. 2023	PF	Storage loss minimization techniques	01	-	18	18	-	02	02	20
26.04. 2023	PF	Importance of human health and hygiene	01	-	18	18	-	02	02	20
15.05.2023	PF	Importance of Coarse grains in diet	01	-	18	18	-	02	02	20
08.07.2023	PF	Low cost balance diet for children	01	-	18	18	-	02	02	20
11.10. 2023	PF	House hold food security by nutrition kitchen gardening	01	-	18	18	-	02	02	20
16.12.2023	PF	Designing and development for high nutrient efficient diet	01	-	18	18	-	02	02	20
<b>Plant Protection</b>										
03.05.2023	PF	IPMinZaidUrd-moong	01	18	-	18	02	-	02	20
02.08. 2023	PF	IDM in paddy	01	18	-	18	02	-	02	20
06.09. 2023	PF	Management of diseases fotoria and mustard	01	18	-	18	02	-	02	20
04.10. 2023	PF	Biological control of major diseases of rabivegitables	01	18	-	18	02	-	02	20
<b>Farm Management</b>										
29,30.01.2023	PF	Scientific cultivation techniques of Mentha	02	18	-	18	02	-	02	20
28,29.03.202	PF	Recycling of Organic Wastes.	02	18	-	18	02	-	02	20

3										
16,17.06.2023	PF	Seed Production techniques of Paddy	02	18	-	18	02	-	02	20
14,15.07.2023	PF	Dashparni extract method of preparation and its uses in crops	02	18	-	18	02	-	02	20
22,23.09.2023	PF	Seed production technology of Cauliflower	02	18	-	18	02	-	02	20
06,07.10.2023	PF	Agnishtra (Hot Preparation) method of preparation and its uses in crops	02	18	-	18	02	-	02	20
03,04.10.2023	PF	Seed production technology of wheat	02	18	-	18	02	-	02	20
<b>Soil Science</b>										
03.07.2023	PF	Integrated nutrient management in paddy	01	18	-	18	02	-	02	20
08.08.2023	PF	Increasing nutrient use efficiency in paddy crop	01	18	-	18	02	-	02	20
07.10.2023	PF	Production technique of Mustard	01	18	-	18	02	-	02	20
20.10.2023	PF	Importance of biofertilizer in soil fertility management	01	18	-	18	02	-	02	20
		<b>Total</b>	<b>41</b>	<b>486</b>	<b>126</b>	<b>612</b>	<b>54</b>	<b>14</b>	<b>68</b>	<b>680</b>

**i) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
17.02.2023	PF	Scientific Cultivation of oilseed and pulses	01	18	-	18	02	-	02	20
19.05.2023	PF	Scientific Cultivation of paddy	01	18	-	18	02	-	02	20
21.09.2023	PF	Crop Residue management	01	18	-	18	02	-	02	20
11.10.2023	PF	Scientific Cultivation of wheat	01	18	-	18	02	-	02	20
22.11.2023	PF	Natural Farming	01	18	-	18	02	-	02	20
06.12.2023	PF	Scientific Integrated farming	01	18	-	18	02	-	02	20
<b>Live Stock Production.</b>										
25.01.2023	PF	Endo parasites in animals: their treatment and control	01	18	-	18	02	-	02	20
10.02.2023	PF	Scientific broiler production for high economic return	01	18	-	18	02	-	02	20
24.05.2023	PF	Importance of minerals in animal feeds and their management	01	18	-	18	02	-	02	20
20.09.2023	PF	Treatment technique of wheat/paddy straw for optimization of digestibility	01	18	-	18	02	-	02	20
27-09-2023	PF	Importance of Herbal Drugs use in Animal Health.	01	18	-	18	02	-	02	20
20.10.2023	PF	Goat production tech. for high economic return.	01	18	-	18	02	-	02	20
15.11.2023	PF	Optimizing animal production through better use and quality assurance of feed resources in mix farming systems.	01	18	-	18	02	-	02	20

13.12.2023	PF	Mastitis in milch animals; its symptom and control	01	18	-	18	02	-	02	20
<b>Agril. Extension</b>										
11.01.2023	PF	Leadership development	01	18	-	18	02	-	02	20
14.03.2023	PF	Awareness about FasalBimaYojana	01	18	-	18	02	-	02	20
23.05.2023	PF	Formation of new SHGs, CIGs	01	18	-	18	02	-	02	20
13.06.2023	PF	Awareness about PM-KISAN Scheme	01	18	-	18	02	-	02	20
11.07.2023	PF	Importance of natural farming	01	18	-	18	02	-	02	20
27.09.2023	PF	Importance of mobile communication technologies in agriculture	01	18	-	18	02	-	02	20
<b>Home Sc.</b>										
19.01.2023	PF	Balanced diet for pregnant and lactating women	01	-	18	18	-	02	02	20
25.02.2023	PF	Income generation activities for empowerment of rural women	01	-	18	18	-	02	02	20
10.06.2023	PF	Preparation of mango product	01	-	18	18	-	02	02	20
23.06.2023	PF	Preparation of aonla product	01	-	18	18	-	02	02	20
11.08.2023	PF	Home scale soya bean processing	01	-	18	18	-	02	02	20
13.09.2023	PF	Minimization of nutrient loss during processing of fruit and vegetables	01	-	18	18	-	02	02	20
<b>Plant Protection</b>										
07.06.2022	PF	IPM in Kharif pulses	01	18	-	18	02	-	02	20
12.07.2022	PF	IPM in paddy	01	18	-	18	02	-	02	20
09.08.2022	PF	Management of Sheath blight in paddy	01	18	-	18	02	-	02	20
13.09.2022	PF	Management of BPH in paddy	01	18	-	18	02	-	02	20
11.10.2022	PF	IPM in toria and mustard	01	18	-	18	02	-	02	20
08.11.2022	PF	Biological practices for management of pod borer in gram	01	18	-	18	02	-	02	20
<b>Farm Management</b>										
08.01.2023	PF	Technique of Mushroom cultivation.	01	18	-	18	02	-	02	20
27.03.2023	PF	Seed Processing & Storage technology of rabi crops.	01	18	-	18	02	-	02	20
15.04.2023	PF	Establishment and Preparation of planting pits for orchards.	01	18	-	18	02	-	02	20
27.05.2023	PF	Preparation of Beejamrit and its uses	01	18	-	18	02	-	02	20
03.06.2023	PF	Planning & budgeting of Farms	01	18	-	18	02	-	02	20
17.07.2023	PF	Dashparni extract method of preparation and its uses in crops	01	18	-	18	02	-	02	20
14.08.2023	PF	Preparation of Neemastra and its uses in crop	01	18	-	18	02	-	02	20
15.10.2023	PF	Importance & benefits of Organic farming.	01	18	-	18	02	-	02	20
01.11.2023	PF	Seed production technology of wheat	01	18	-	18	02	-	02	20
15.11.2023	PF	Scientific cultivation of Rose	01	18	-	18	02	-	02	20
<b>Soil Science</b>										
18.02.2023	PF	Production technique of Summer maize	1	18	-	18	02	-	02	20
28.02.2023	PF	Importance of NADAP and vermin compost in crop production	1	18	-	18	02	-	02	20
10.03.2023	PF	Management of problematic soil	1	18	-	18	02	-	02	20
03.07.2023	PF	Soil test based nutrient management in maize	1	18	-	18	02	-	02	20

10.04.2023	PF	Use and importance of green manuring	1	18	-	18	02	-	02	20
18.04.2023	PF	Green manuring	1	18	-	18	02	-	02	20
		Total	756	108	864	84	12	96	960	756

### ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Crop Protection	Mushroom Production	Oyster Mushroom production technology	03-07Jan. 23	05	08	-	08	02	-	02	10
	Mushroom Production	Milky Mushroom Production Technology	13-17 June 23	05	08	-	08	02	-	02	10
Value addition	Value addition	Organic food processing	17-21 Nov., 23	05	-	08	08	-	02	02	10
Value addition	Value addition	Preservation of Fruit and Vegetables	21-25 Oct 23	05	-	08	08	-	02	02	10
Livestock	Dairy Farming	Dairy Farming management	Nov- 23	06	08	-	08	02	-	02	10
Livestock	Poultry farming	Poultry farming	Aug-23	06	08	-	08	02	-	02	10
Livestock	Goat Farming	Goat rearing	Sept-23	06	08	-	08	02	-	02	10
Soil Testing	Poor productivity of soil	Soil Testing	15-19 November-2023	05	09	-	09	1	-	1	10
Vermicomposting	Low organic matter in soil	Preparation and manufacturing of NADEP compost	May 24-28, 2023	05	09	-	09	1	-	1	10
Crop Production	Vermi- Compost	Scientific Vermi-compost Production	25-29 Apr. 23	05	08	-	08	02	-	02	10
	Seed Production	Scientific Wheat Seed Production	22-26Aug-23	05	08	-	08	02	-	02	10
Ag. Extension	Entrepreneurship	Development of entrepreneurship among rural youth	12 & 16 Sept. 2023	05	08	-	08	02	-	02	10
Ag. Extension	ICTs	Importance of ICTs in agriculture	12 & 16 Dec. 2023	05	08	-	08	02	-	02	10
Farm Management	Natural Farming	Zero budget natural farming (ZBNF)	15- 20 June 2023	06	08	-	08	02	-	02	10
	Medicinal and aromatic plants	Cultivation of Medicinal and aromatic plants	23-29 Oct. 2023	06	08	-	08	02	-	02	10
		<b>Total</b>	<b>15</b>	<b>80</b>	<b>106</b>	<b>16</b>	<b>122</b>	<b>24</b>	<b>4</b>	<b>28</b>	<b>150</b>

### iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Off Campus</b>										
11.01.23	EF	Use of soluble fertilizer in Rabi crops	01	08	-	08	02	-	02	10
16.03.23	EF	Use of biofertilizers in crop production	01	08	-	08	02	-	02	10
14.08.23	EF	Use of soluble fertilizer in kharif crops	01	08	-	08	02	-	02	10
16.04.23	EF	Integrated Water management in crops	01	08	-	08	02	-	02	10
25.05.23	EF	NADEP compost Production technology	01	08	-	08	02	-	02	10
12.07.23	EF	Integrated Weed Management in crops	01	08	-	08	02	-	02	10
26.10.23	EF	Vermi-compost Production technology	01	08	-	08	02	-	02	10
08.02.23	EF	Role of mineral in animal reproduction and production	01	08	-	08	02	-	02	10
12.07. 23	EF	.Recent advances in mastitis treatment	01	08	-	08	02	-	02	10
23.08. 23	EF	Bio technology use in animal production	01	08	-	08	02	-	02	10
13-09-23	EF	Recent advances in mastitis treatment	01	08	-	08	02	-	02	10



11.02.22	EF	Protected cultivation of vegetables	01	08	-	08	02	-	02	10
10.11. 22	EF	Management of old orchards	01	08	-	08	02	-	02	10
26.07.23	EF	Management of major pests and diseases of paddy	01	08	-	08	02	-	02	10
23.08.23	EF	Management of pests and diseases of rabi pulses and oilseed crops	01	08	-	08	02	-	02	10
25.05.23	EF	Nutritional security by kitchen gardening	01	-	08	08	-	02	02	10
08.11.23	EF	Nutritional deficiencies diseases in children	01	-	08	08	-	02	02	10
28.10.23	EF	Reduction of malnutrition	01	-	08	08	-	02	02	10
21.02. 2023	EF	Organic manure production	01	08	-	08	02	-	02	10
10.05.2023	EF	Formation and management of SHGs	01	08	-	08	02	-	02	10
22.08.2023	EF	Formation and management of Farmer Production Organization	01	08	-	08	02	-	02	10
16.11.2023	EF	Organic farming	01	08	-	08	02	-	02	10
02.03.2023	EF	Cultivation of cucurbits								
20.05,2023	EF	Planning & layout of orchard, establishment of citrus, guava & Aonla								
19.08.2023	EF	Seed production technology of field Pea.								
10.11.2023	EF	Techniques of Wheat seed production.								
		<b>Total</b>	<b>22</b>	<b>152</b>	<b>24</b>	<b>176</b>	<b>38</b>	<b>06</b>	<b>44</b>	<b>220</b>

**iv) Sponsored programme**

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
<b>a) Sponsored training programme</b>											
All Agricultural Subject	UP State	Formal	FTT	01	40	10	50	05	05	10	50



**ACTION PLAN**  
*January – December, 2023*



**KRISHI VIGYAN KENDRA  
BAGHPAT**

## 1. General information about the KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E-mail
	Office	Fax	
Krishi Vigyan Kendra, Khekra, NH 709B (Behind New Tehsil) Baghatpat – 250101 Website: baghatpat.kvk4.in	9412311502	-	kvkbaghatpat1@gmail.com

### 1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E-mail
	Office	Fax	
Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut- 250 110 (U.P.) Website: www.svbpm Meerut.ac.in	0121- 288522	0121- 288505, 288540	vc2016svpuat@gmail.com deesvpuat2014@gmail.com

### 1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sandeep Chaudhary, Professor/OIC	-	9412311502	sundeep.baraut@gmail.com

### 1.4. Year of sanction: 27-04-2014

### 1.5. Staff Position (as on 31<sup>st</sup> August 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	-	-	-	-	-	-	-	-
2	Subject Matter Specialist	Dr. Sandeep Chaudhary	Professor/OIC	Crop Production	37400-67000	182700	01/01/1996	Permanent	OBC
3	Subject Matter Specialist	Dr. Sarita Joshi	Professor	H. Science	37400-67000	205600	26/08/1995	Permanent	Others
4	Subject Matter Specialist	Sh. Amit Chaudhary	SMS/Asstt. Professor	Horticulture	15600-39100	58200	09/12/2003	Permanent	OBC
5	Subject Matter Specialist	Dr. Shivam Singh	SMS/T6	Plant Protection	15600-39100	56100	01/07/2022	Permanent	Others
6	Subject Matter Specialist	Dr. Sonika Grewal	SMS/T6	Livestock Production	15600-39100	56100	01/07/2022	Permanent	OBC
7	Subject Matter Specialist	Er. Gaurav Sharma	SMS/T6	Ag. Engineering	15600-39100	56100	08/07/2022	Permanent	OBC
8	Programme Assistant	-	-	-	-	-	-	-	-
9	Computer Programmer	-	-	-	-	-	-	-	-
10	Farm Manager	Dr. Ravindra Kumar	Programme Assistant/Farm Manager	Soil Science	9300-34800	56900	02/08/2007	Permanent	OBC
11	Accountant / Off. Supr.	Sh. Sanjeev Chandel	Accountant	Accountancy	9300-34800	70000	10/12/2003	Permanent	OBC
12	Stenographer	Sh. Praveen Kumar Premi	Steno	-	5200-20200	41600	26/12/2008	Permanent	SC
13	Driver	Sh. Papin Kumar	Driver cum Mechanic	-	5200-20200	32300	26/12/2008	Permanent	OBC
14	Driver	-	-	-	-	-	-	-	-
15	Supporting staff	Sh. S. C. Sharma	-	-	5200-20200	38600	01/12/1992	Permanent	Others
16	Supporting staff	-	-	-	-	-	-	-	-

## 2. DETAILS OF DISTRICT (2022)

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Agriculture + Animal Husbandry
2	Agriculture + Animal Husbandry + Horticulture

### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1	North Western Plain Zone	Sub humid to Subtropical climate, maximum and minimum temperature 44.2 <sup>o</sup> C and 3 <sup>o</sup> C respectively with average rainfall is about 512.69 mm in last 11 year

### 2.3 Soil types

S. No	Soil types	Characteristics
1	Sandy loam to loam with normal pH	The soil have enough clay to store adequate amount of water and plant nutrients for optimum plant growth, containing enough sand, silt and clay. Clay content is not much as to cause poor aeration or to make working difficult. A soil containing 7 to 27% clay and approximately equal amount of silt and sand has been designated as loam textured soil.

### 2.4 Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (000ha)	Production (MT)	Productivity (Q/ha)
1	Sugarcane	74.227	866.4	866.4
2	Jawar (grain)	0.011	0.012	10.91
3	Bajra	0.595	1.062	17.85
4	Maize	0.009	0.023	25.56
5	Urd	0.52	0.584	11.23
6	Arhar	0.464	0.336	7.24
7	Rice	4.847	13.998	28.88
8	Wheat	55.427	253.468	45.73
9	Barley	0.038	0.149	39.21
10	Mustard	2.716	3.715	13.66
11	Gram	0.311	0.013	11.82
12	Masoor	0.052	0.053	10.14
13	Pea	0.013	0.02	15.56

Source- District statistically report 2021-22

### 2.5 Priority/thrust areas

S. No.	Crop/Enterprise	Thrust area
1	Wheat	Increase productivity of late sown conditions Weed management.
2	Sugarcane	Management of pests & disease
3	Nutritional Management	Creating awareness about human nutrition (nutritional needs to mitigate the problems of nutritional deficiency in rural woman.
4	Paddy	Pest & disease management
5	Soil	Maintenance of soil health.
6	Vegetable	Pest Management and crop husbandry
7	Oilseed and Pulses	Promotion of oilseed and pulses crops.

### 3. TECHNICAL PROGRAMME

#### A. Details of Targeted Mandatory Activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha) & No. of cattle	Number of Farmers
12	36	100 & 60	310

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
132	2400	1000	2000

Seed Production (q)	Planting material Production (Nos.)	Fish seed prod. (q)	Soil Samples analysis (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
200	20000	2	1200	3000

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
-	-	-	-

#### B. Abstract of Interventions to be undertaken

S. No	Thrust area	Crop/Enterprise	Identified problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal evaluation	Wheat	Low productivity	Assessment of chemical base & Organic base production of wheat	Introduction of timely sown new variety	Introduction of timely and late sown wheat varieties & its production technology	Introduction of late sown wheat varieties & its production technology	Advisory services, goshthi and farmers training	Seed and weedicides
		Paddy	Low yield	Assessment of chemical base & Natural farming base	Introduction of new variety		Cultivation techniques of bitter guard Techniques		Seed and weedicides

		Pea	Low yield	production of Paddy			of gladiolus cultivation		
		Radish	Low yield	Evaluation of improved varieties of vegetable pea	Use of HYV seed	Production techniques of garden pea	Introduction of new varieties and cultivation techniques of Pea	Advisory services, goshtli and farmers training	Seed
		Bitter guard	Low yield	-	Introduction of high yielding variety (Hybrid variety)	Cultivation techniques of bitter guard			
2.	Intercropping	Intercropping of turmeric with mango	Low income from mango orchard	Evaluation of intercropping system	-	Intercropping with autumn and spring planting sugarcane	-	Advisory services, goshtli and farmers training	Seed and seedlings
3	Promotion of oilseed and pulses crops.	Mustard	Infestation of aphid	-	Package of practices of mustard	Production technology, introduction of improved varieties and disease & pest management of mustard	Introduction of improved mustard varieties	Advisory services, goshtli and farmers training	Seeds
		Pigeon pea	Non uniform maturity	-	Package of practices of pigeon pea	Management of pests in summer pulses			
		Black gram	High incidence of yellow mosaic virus	-	Package of practices of black gram				
		Green gram	High incidence of yellow mosaic virus	-	Package of practices of green gram				
		Pea	High incidence of powdery mildew	-	Package of practices of pea				
4	Dairy management	Cow	High incidence of infertility in cows	Assessment of UMMB animal feed	Deworming in animals	Importance of mineral mixture and balance ration in	Importance of Mineral mixture in dairy		

		Buffalo	Infertility in buffalo	supplementation to control the infertility Evaluation of feed supplement along with Dewormer to check the infertility in milch animals.		dairy animals Management of infertility in dairy animals Heat stress: It's causes, symptoms and prevention in dairy animals	animals		
5	Fodder production	Pearl millet	Low production of fodder crops	-	Popularization of green fodder production	Round the year fodder production	-	Advisory services, goshtih and farmers training	
6	Addressing malnutrition to the farm women	Seasonal fruits and vegetable	Low Nutritional status and Malnutrition of Farm women	Assessment of the effective supplementation of multigrain flour for improvement of nutritional status of Farm Women	Nutritional garden	Nutrient efficient diet for adolescents Nutritional importance & recipes of Mushroom Nutrition and safe motherhood.	Cultivation of nutrigarden Nutrient efficient diet for adolescents	Advisory services, goshtih and farmers training	Mini seed kits and seedlings
7	Processing and value addition	Mango	Spoilage of fruits when they are in bulk	-	Preparation of mango jam	Processing of soybean for food uses	-	Advisory services, goshtih and farmers training	-
8	Drudgery reduction	-	Drudgery involved in sowing activity	Efficiency assessment of Naveen Dibbler for sowing of bold seeded crops specifically Bengal gram	-	-	-	Goshtih and farmers training	-
9	Mechanization	Sugarcane	Low sugarcane	Proper deep	-	MB Plough setting	-		

		Paddy	productivity, soil born infestation and high weed growth due to improper performing of deep ploughing  Low productivity of paddy due to improper puddling	ploughing before plantation for Sugarcane  Enhancing the productivity of paddy through proper puddling		Introduction to the concept of matching implements			
10	Soil moisture conservation	Paddy  Sugarcane	To access the effectiveness of irrigation water management in paddy  To access the effectiveness of irrigation water management in Sugarcane	-  -	Demonstration of soil moisture indicator in Paddy  Irrigation management in sugarcane with the help of soil moisture Indicator	Application of solar pump in irrigation  Benefits of drip irrigation  Introduction to Govt. irrigation schemes	Soil moisture Indicator  Alternate wetting drying technique		
11	Integrated Pest Management (IPM)	Paddy	Heavy infestation of Stem Borer causing 15 to 40 % crop loss	Control of stem borer in paddy	-	Control of insect pests in in potato, paddy, sugarcane wheat and other field crops	Safe handling and use of pesticides  Role of Trichocards in pest management		
12	Integrated Disease	Potato	Severe infection	Management of late	Management of	Management of	Integrated pest and		



	Management (IDM)		of late blight disease in potato	blight in potato	yellow mosaic disease in black gram	diseases in potato, paddy, sugarcane wheat and other field crops	disease management in paddy  Use and importance of bio-pesticides in natural farming		
13	Seed treatment	All crops	Severe infection of seed borne diseases	-	-	Methods of seed treatment and its importance in Rabi crops	-		
14	Weed management	Wheat	Severe issues of weed in wheat crop	-	Management of weed in wheat		-		
15	Entrepreneurship and income generation	Mushroom cultivation  Bio/ Natural farming  Vermi composting  Handicraft  Nursery management  Rooftop rainwater harvesting	Low income of rural youth	-	-	Mushroom cultivation Natural farming  Establishment of vermi compost unit  Developing skill of handicraft  Nursery management  Fruit & vegetables preservation  Rooftop rainwater harvesting	-	Goshthi and training	-

### 3.1 Technologies to be Assessed and Refined

#### A.1 Abstract on the Number of Technologies to be assessed in Respect of Crops

Thematic areas	Cereals	Commercial crops	Fruits/Vegetables	TOTAL
Varietal evaluation	2	-	3	5
Intercropping		1	-	1
Fodder production	1	-	-	1
Addressing malnutrition to the farm women	-	-	1	1
Processing and value addition	-	-	1	1
Drudgery reduction	-	1	-	1
Mechanization	1	1	-	2
Soil moisture conservation	2	-	-	2
Integrated Pest Management (IPM)	1	-	-	1
Integrated Disease Management (IDM)	-	-	1	1
Weed management	1	-	-	1
<b>TOTAL</b>	<b>8</b>	<b>3</b>	<b>6</b>	<b>17</b>

A.2. Abstract on the Number of Technologies Refined in Respect of Crops: Nil

A.3. Abstract on the Number of Technologies Assessed in Respect of Livestock / Enterprises: Nil

A.4. Abstract on the Number of Technologies Refined in Respect of Livestock / Enterprises: Nil

#### B. Details of On Farm Trial

##### OFT-1

##### OFT on Natural Farming evaluation of Paddy

Crop/Enterprises	Paddy
Title of on-farm trial	Assessment of chemical base & Natural farming base production of Paddy
Problem diagnosed	Low yield of old variety
Production system and thematic area	Paddy-Wheat- Paddy
Farming situation	Irrigated
Farmer's practices	T <sub>1</sub> - Farmers Use of chemical (Fertilizers & P.P. chemicals)
Details of technologies	T <sub>2</sub> - Use of cow based N. Farming products
Source of technology	UPSOCA Lucknow
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Paddy seed (Pusa1121) 20 Kg. & Natural farming based Ag. inputs
Performance indicators i). Technical ii). Economic  iii).Social	<ul style="list-style-type: none"> <li>• No. of tillers/one meter row length</li> <li>• Days of maturity</li> <li>• Yield /ha</li> <li>• Net income</li> <li>• B.C. ratio</li> <li>• Social acceptance</li> </ul>
Expected income	(Approx. Exp. Rs 5000/-)
Name of Scientist	Dr. Sandeep Chaudhary, Professor (Agronomy)

**OFT-2****OFT on Natural Farming base production of Wheat:**

Crop/Enterprises	<b>Wheat</b>
Title of on-farm trial	Assessment of chemical base & Organic base production of wheat
Problem diagnosed	Chemical infected product
Production system and thematic area	Paddy- Wheat system
Farming situation	Irrigated
Farmer's practices	T <sub>1</sub> - Chemical base wheat cultivation
Details of technologies	T <sub>2</sub> - Cow base N. Farming wheat cultivation
Source of technology	UPSOCA Lucknow
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Wheat Seed 120 kg. & Natural farming based Ag. Inputs
Performance indicators i). Technical  ii). Economic  iii). Social	<ul style="list-style-type: none"> <li>• No. of tillers/one meter row length</li> <li>• Days of maturity</li> <li>• Yield /ha</li> <li>• Net income</li> <li>• B.C. ratio</li> <li>• Social acceptance</li> </ul>
Expected income	(Approx. Exp. Rs 5000/-)
Name of Scientist	Dr. Sandeep Chaudhary, Professor (Agronomy)

**OFT-3****On Farm Trial on Intercropping of turmeric in mango orchard**

Crop/Enterprises	<b>Turmeric + Mango</b>
Title of on-farm trial	Evaluation of intercropping system
Problem diagnosed	Low income from mango orchard
Thematic area	Integrated Crop Management
Farming situation	Irrigated
Farmer's practices	T <sub>1</sub> - Farmer practices –sole orchard.
Details of technologies selected for assessment/refinement	T <sub>2</sub> - Mango+ Turmeric (Rajendra Soria)
Source of technology	CISH, Lucknow
No. of farmers/ No. of locations	03 (500×3=1500 sq. m.)
Replications	03
Critical input	Turmeric seed
Performance indicators i). Technical ii). Economic iii) Social	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Yield, B:C ratio</li> <li>• Farmer feedback</li> </ul>
Expenditure	Rs. 3750 (Approx.)
Name of Scientist	Sh. Amit Chaudhary , SMS. (Horticulture)

**OFT- 4****Evaluation of improved varieties of vegetable pea**

Crop/Enterprises	Pea
Title of on-farm trial	Evaluation of improved varieties of vegetable pea
Problem diagnosed	Sowing of local variety
Thematic area	Varietal
Farming situation	Irrigated

Farmer's practices	T <sub>1</sub> - Farmer practices –Sowing of old variety Arkil
Details of technologies selected for assessment/refinement	T <sub>2</sub> - PSM-5
Source of technology	IVRI, Varanasi
No. of farmers/ No. of locations	03
Replications	05 (500 sq. m. /treatment
Critical input	Seed - PSM-5
Performance indicators i). Technical  ii). Economic iii) Social	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net profit (Rs/ha),</li> <li>• Production of per ha.</li> <li>• B:C ratio</li> <li>• Acceptability of technology</li> </ul>
Expenditure	(Aprox. Exp. Rs 5625/-)
Name of Scientist	Sh. Amit Chaudhary, SMS. (Horticulture)

#### OFT- 5

Crop/Enterprise	<b>Cow</b>
Title	Assessment of UMMB animal feed supplementation to control the infertility
Problem diagnosed	High incidence of infertility in cows
Farming situation	Mixed farming
Thematic area	Dairy Nutrient management
Source of technology	IVRI, Izatnagar , Bareilly/NDRI, Karnal
Farmer's Practice	Use of salt
<b>Details of technologies selected for assessment/refinement</b>	
T <sub>1</sub>	Farmer's practice (salt)
T <sub>2</sub>	Use of UMMB supplementation@ /40kg/animal for 120 days
No. of famers/Animals	05/05
Duration	120 days
Critical Input	UMMB@ 40kg/animal for 120 days
Observations to be recorded	<ul style="list-style-type: none"> <li>• Conception rate</li> <li>• Milk yield</li> <li>• Estrous cycle regularity</li> <li>• B:C ratio</li> </ul>
Total cost of OFT	Rs 8000/- (Approx.)
Name of Scientist	Dr. Sonika Grewal, SMS (Livestock Production)

#### OFT- 6

Crop/Enterprise	Buffalo/ Cow
Title	Evaluation of feed supplement along with Dewormer to check the infertility in milch animals.
Problem diagnosed	Infertility
Farming situation	Crop production and animal husbandry.
Thematic area	Dairy Management
Farmer's Practice	Use of choker and common salt
<b>Details of technologies selected for assessment/refinement</b>	
Source of technology	IVRI, Bareilly
T <sub>1</sub>	Farmer's practice (Use of choker and common salt)

T <sub>2</sub>	Use of Feed Supplement @50 gm/day/animal for two month feeding + Dewormer /animal
No. of families/animal	20
Critical Input	Mineral mixture & Dewormer
Observations to be recorded	<ul style="list-style-type: none"> <li>• Conception rate</li> <li>• Cost: Benefit ratio</li> <li>• Milk production</li> </ul>
Total cost of OFT	Rs 8000/- (Approx.)
Name of Scientist	Dr. Sonika Grewal, SMS (Livestock Production)

#### OFT- 7

Title	Efficiency assessment of Naveen Dibbler for sowing of bold seeded crops specifically Bengal gram
Problem diagnosed	Drudgery involved in sowing activity
Production system and thematic area	Location specific drudgery reduction technologies
Farmers' Practices	Manual sowing of seeds
Details of technology identified for solution	T1- Naveen Dibbler
No. of farmer	03
Critical inputs	Naveen Dibbler
Source of technology	Central Institute of Agriculture Engineering Bhopal (MP)
Total Cost	1000
Observation to be taken	Reduction in overall drudgery
Performance indicators:	
i. Technical	<ol style="list-style-type: none"> <li>1. Physiological cost of work</li> <li>2. Energy Expenditure</li> <li>3. Change in Grip Strength</li> <li>4. Musculoskeletal Discomfort perceived</li> <li>5. Time taken / m<sup>2</sup></li> </ol>
ii. Economical	Saving in wages
iii. Social	<ol style="list-style-type: none"> <li>1. Acceptability</li> <li>2. Attitude towards technology</li> </ol>

#### OFT- 8 OFT on Nutritional Security

Thematic Area	Nutritional Security
Problem diagnosed	Low Nutritional status and Malnutrition of Farm women
Title	Assessment of the effective supplementation of multigrain flour for improvement of nutritional status of Farm Women
Technology options: Farmers Practice (T <sub>1</sub> )	Wheat flour only (Protein 10-11%, Iron 1.0-1.2 mg/100 gm)
Technology to be assessed (T <sub>2</sub> )	Multigrain flour (wheat flour 75%)+ Gram Flour (20%) + Barley Flour (5%) for 180 days ((Protein 14-15%, Iron 2.0-2.4 mg/100 gm), to Farm women aged 35-40yrs. (sedentary worker. from medium SES).
Source of Technology	Year 2012NIN , Hyderabad,
Critical Input	Gram Flour(80 gm/day) + Barley Flour (20 gram/day)
Expenditure	Rs. 1500/ trial
Parameter observation	<ul style="list-style-type: none"> <li>• Physical parameter</li> <li>• Nutritional parameter,</li> </ul> Economic and sensory parameter. (As per format developed and provided

	under NARI Programme
Name of scientist	Dr. Sarita Joshi, Professor (Home Science)

### OFT- 9

#### OFT on Sugarcane planting technique (Sowing – Feb-March month)

Crop/Enterprises	<b>Sugarcane</b>
Title of on-farm trial	Proper deep ploughing before plantation for Sugarcane
Problem diagnosed	Low sugarcane productivity, soil born infestation, and high weed growth due to no performing of deep ploughing
Production system and thematic area	Mechanization
Farmer's practices	T <sub>1</sub> - Planting of sugarcane after harvesting
Details of technologies	T <sub>2</sub> - Planting of sugarcane after ploughing by Reversible M.B. Plough
Source of technology	S.V.P.U.A & T, Meerut
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Hiring of Reversible M.B. Plough, tractor, diesel for tractor operation and labors
Performance indicators i). Technical ii). Economic  iii).Social	<ul style="list-style-type: none"> <li>• No. of tillers/m<sup>2</sup></li> <li>• Economic analysis, additional return/ha, C.B ratio</li> <li>• Yield (q/ha)</li>   <li>• Social acceptance/farmer's reaction</li> </ul>
Cost of each intervention	Rs. 3000/-
Total cost of OFT	3000*3 = 9000/-
Name of Scientist	Er. Gaurav Sharma, SMS (Agriculture Engineering)

### OFT-10 OFT on Proper puddling

Crop/Enterprises	<b>Paddy</b>
Title of on-farm trial	Enhancing the productivity of paddy through proper puddling
Problem diagnosed	Low productivity of paddy due to improper puddling
Production system and thematic area	Mechanization
Farmer's practices	T <sub>1</sub> - Transplanting of paddy after puddling by tiller
Details of technologies	T <sub>2</sub> – Transplanting of paddy after use of rotavator
Source of technology	S.V.P.U.A & T, Meerut
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Hiring of tiller, rotavator harrow and tractor and labors
Performance indicators i). Technical ii). Economic  iii).Social	<ul style="list-style-type: none"> <li>• No. of tillers/m<sup>2</sup></li> <li>• Economic analysis, additional return/ha, C.B ratio</li> <li>• Yield (q/ha)</li>   <li>• Social acceptance/farmer's reaction</li> </ul>
Cost of each intervention	Rs. 3000/-
Total cost of OFT	3000*3 = 9000/-
Name of Scientist	Er. Gaurav Sharma, SMS (Agriculture Engineering)

**OFT-11**

Crop/Enterprises	<b>Paddy</b>
Title of on-farm trial	Control of BPH in paddy
Problem diagnosed	Heavy infestation of Stem Borer causing 15 to 40 % crop loss
Production system and thematic area	Paddy- Wheat system, IPM
Farming situation	Irrigated
Farmers' practices	T <sub>1</sub> - Pymetrozine
Details of technologies	T <sub>2</sub> - Dinotefuran
Source of technology	SVPUA &T, Meerut (UP)
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Dinotefuran @ 100g/acre
Performance indicators i). Technical  ii). Economic  iii). Social	<ul style="list-style-type: none"> <li>• Percentage of dead hearts</li> <li>• Percentage of white ears</li> <li>• Grain yield q / ha.</li> <li>• Cost of input (Treatment wise) / ha</li> <li>• Additional return / ha.</li> <li>• B:C Ratio</li> </ul>
Expected income	(Aprox. Exp. Rs 4000/-)
Name of Scientist	<b>Dr. Shivam Singh, SMS (Plant Protection)</b>

**OFT-12**

Crop/Enterprises	<b>Potato</b>
Title of on-farm trial	Management of late blight in potato
Problem diagnosed	Severe infection of late blight disease in potato
Production system and thematic area	Paddy-Potato, IDM
Farming situation	Irrigated
Farmers' practice	T <sub>1</sub> - 2 sprays of Mancozeb 75% WP @ 1 l/ha
Details of technologies	T <sub>2</sub> - 2 sprays of Azoxystrobin 11% + Tebuconazole 18.3% SC @ 750 ml/ha
Source of technology	SVPUA &T, Meerut (UP)
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Azoxystrobin 11% + Tebuconazole 18.3% SC (1.8 l)
Performance indicators i). Technical  ii). Economic  iii). Social	<ul style="list-style-type: none"> <li>• No of Plants affected (%),</li> <li>• Severity of incidence</li> <li>• Yield/ha.</li> <li>• Cost of cultivation</li> <li>• Net profit</li> <li>• B:C Ratio</li> <li>• Feasibility of technology</li> </ul>
Expected income	(Aprox. Exp. Rs 4000/-)
Name of Scientist	<b>Dr. Shivam Singh, SMS (Plant Protection)</b>

### 3.2 Frontline Demonstrations

#### (a) Details of Cluster FLDs under NFSM to be Organized (Based on soil test analysis)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer s/ demon.	Parameters identified
1	Pigeon pea	Pusa 2002	Varietal evaluation	Introduction of improved variety Pusa 2002	Seed	Kharif 2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>
2	Black gram	Shekhar-2	Varietal evaluation	<ul style="list-style-type: none"> <li>➤ Improved variety: Shekhar -2.</li> <li>➤ Application of <i>Trichoderma</i> in soil</li> <li>➤ Application of pre-emergence weedicides</li> <li>➤ Application of <i>Rhizobium</i> culture</li> </ul>	Seed, <i>Trichoderma</i> , weedicides, pesticides and <i>Rhizobium</i> culture	Kharif 2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>
3	Green gram	Pusa Ratna (Pusa 9972)	Varietal evaluation	<ul style="list-style-type: none"> <li>➤ Improved variety: Shekhar -2.</li> <li>➤ Application of <i>Trichoderma</i> in soil</li> <li>➤ Application of pre-emergence weedicides</li> <li>➤ Application of <i>Rhizobium</i> culture</li> </ul>	Seed, <i>Trichoderma</i> , weedicides, pesticides and <i>Rhizobium</i> culture	Kharif 2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>
4	Field pea	IPF 4-9	Varietal evaluation	<ul style="list-style-type: none"> <li>➤ Improved variety: IPF 4-9</li> <li>➤ Application of <i>Trichoderma</i> in soil</li> <li>➤ Application of fungicide</li> </ul>	Seed, <i>Trichoderma</i> and fungicide	Rabi 2023-24	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>
5	Black gram	Shekhar-1	Varietal evaluation	<ul style="list-style-type: none"> <li>➤ Improved variety: Shekhar -1</li> </ul>	Seed, <i>Trichoderma</i> , weedicides, pesticides	Summer 2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>



				<ul style="list-style-type: none"> <li>➤ Application of <i>Trichoderma</i> in soil</li> <li>➤ Application of pre-emergence weedicides</li> <li>➤ Application of <i>Rhizobium</i> culture</li> </ul>	and <i>Rhizobium</i> culture				<ul style="list-style-type: none"> <li>• Yield increase (%)</li> </ul>	
6	Green gram	Pusa Vishal	Varietal evaluation	<ul style="list-style-type: none"> <li>➤ Improved variety: Pusa Vishal</li> <li>➤ Application of <i>Trichoderma</i> in soil</li> <li>➤ Application of pre-emergence weedicides</li> <li>➤ Application of <i>Rhizobium</i> culture</li> </ul>	Seed, <i>Trichoderma</i> , weedicides, pesticides and <i>Rhizobium</i> culture	Summer 2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	
							<b>Total</b>	<b>60.0</b>	<b>150</b>	

**(b). Details of FLDs Oilseeds to be Organized**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer s/ demon.	Parameters identified
1	Mustard	RH1706/ RH749	Varietal evaluation	Improved variety	Seed, Sulphur	Rabi 2023 - 24	20.0	50	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>

**(c) Details of FLDs other than Oilseeds and Pulses to be organized:**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer s/ demon.	Parameters identified
1	Paddy	P.B. - 1847	Varietal evaluation	Introduction of new variety	Seed	Kharif 2023	4.0	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Cost of cultivation</li> <li>• Net return</li> <li>• C:B Ratio</li> </ul>
2	Wheat	DBW 332 OR DBW 327	Varietal evaluation	Introduction of timely sown new variety	Seed	Rabi 2023 - 24	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>

3	Bitter-guard	Pusa Vishesh	Varietal evaluation	Introduction of high yielding variety (Hybrid variety)	Seed	Kharif 2023	0.8	10	<ul style="list-style-type: none"> <li>Gross Return</li> <li>Yield increase</li> <li>Cost of cultivation</li> <li>Net return</li> <li>C:B Ratio</li> </ul>
4	Radish	Himani	Varietal evaluation	Use of HYV seed	Seed	Rabi 2023 - 24	0.4	05	<ul style="list-style-type: none"> <li>Gross Return</li> <li>Yield increase</li> <li>Cost of cultivation</li> <li>Net return</li> <li>C:B Ratio</li> </ul>
5	Cattle/Buffalo	Local/CB	Dairy management	Deworming in animals	Dewormer	Kharif 2023	60	30	Cured percentage - General health
6	Jowar	Makkan grass	Fodder production	Popularization of green fodder production	Seed	Rabi 2023 - 24	1.0	12	Yield of green fodder
7	Fruit & vegetable	Latest & hybrid variety as per availability from IARI New Delhi	Nutritional garden	Nutritional garden	Mini seed kit	Zaid 2023 Kharif 2023 & Rabi 2023-24	0.45	30	<ul style="list-style-type: none"> <li>Yield</li> <li>Cost of cultivation</li> <li>Net return</li> <li>C:B ratio</li> <li>Monthly saving</li> </ul>
8	Mango	-	Value addition	75% sugar/kg. of Fruit pulp used, 3 gram citric acid /Kg	Apple, sugar and citric acid	Rabi 2023-24	-	20	C:B ratio
9	Paddy	PB-1509	Soil moisture conservation	Front line demonstration of soil moisture indicator in Paddy	Soil moisture Indicator	Kharif 2023	4.0	10	<ul style="list-style-type: none"> <li>No. of irrigation/crop</li> <li>Field water use efficiency</li> <li>Yield (t/ha)</li> <li>Gross cost</li> <li>Gross return</li> <li>Net return</li> <li>B.C. Ratio</li> </ul>
10	Sugarcane	Co-0238	Soil moisture conservation	Irrigation management in sugarcane with the help of soil moisture Indicator	Soil moisture Indicator	Rabi 2023-24	4.0	10	<ul style="list-style-type: none"> <li>No. of irrigation/crop</li> <li>Field water use efficiency</li> <li>Yield (t/ha)</li> <li>Gross cost</li> <li>Gross return</li> <li>Net return</li> <li>B.C. Ratio</li> </ul>
11	Black gram (Urd)	-	Pest and Disease management	Management of yellow mosaic disease in black gram by using	Insecticide	Kharif 2023	4.0	10	<ul style="list-style-type: none"> <li>Yield</li> <li>Profit</li> <li>No. of insect infested plants</li> </ul>

				Imidaclopride 17.8 SL @60 ml/acre					per sq. m.
12	Wheat	-	Weed management	Management of weed in wheat by using Clodinafop Propargyl 15 WP @160 g/acre	Weedicide	Rabi 2023-24	4.0	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Profit</li> <li>• No of <i>P. minor</i> / sq.m.</li> </ul>
<b>Total</b>							<b>26.65 and 60 animals</b>	<b>167</b>	

## B. Extension and training Activities Under FLDs (Tentative)

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	07	Jan., Feb., Mar., April, Oct., Nov.2023	350
2	Farmers Training	12	Jan.- Dec.2023	240
3	Media coverage	24	January to December, 2023	mass
4	Training for Ex.functionaries	04	Feb, May, Aug. and November 2023	60

**C. Details of FLD on Enterprises:** FLD will be conducted for demonstrating use of soil moisture meter under soil and water conservation.

(i) **Livestock Enterprises:** FLD will be conducted on fodder production and dewormer will be given to the animals.

### 1.3 Training (Including the Sponsored and FLD Training Programmes):

#### F) ON Campus

Thematic Area	No. of Courses	No. of Participants							Grand Total
		Others			SC/ST				
		Male	Female	Total	Male	Female	Total		
<b>(A) Farmers &amp; Farm Women</b>									
<b>I Crop Production</b>									
Resource Conservation Technologies	1	14	3	17	3	0	3	20	
Integrated Crop Management	1	14	3	17	3	0	3	20	
Soil & water conservation	1	14	3	17	3	0	3	20	
Crop Diversification	1	14	3	17	3	0	3	20	
<b>II Horticulture</b>									
<b>a) Vegetable Crops</b>									
Production of low value and high value crops	1	14	3	17	3	0	3	20	
<b>b) Fruits</b>									
Cultivation of Fruit	1	14	3	17	3	0	3	20	
Rejuvenation of old orchards	1	14	3	17	3	0	3	20	
<b>c) Ornamental Plants</b>									
Nursery Management	1	14	3	17	3	0	3	20	
<b>III Livestock Production</b>									
Dairy Management	1	14	3	17	3	0	3	20	
Animal Nutrition Management	1	14	3	17	3	0	3	20	
Disease Management	2	28	6	34	6	0	6	40	
<b>IV Home Science/Women empowerment</b>									
Household food security by kitchen gardening and nutrition gardening	1	0	17	17	0	3	3	20	

Minimization of nutrient loss in processing	1	0	17	17	0	3	3	20
Processing and cooking	2	0	34	34	0	6	6	40
<b>V Agriculture Engineering</b>								
Farm Machinery and its maintenance	2	28	6	34	6	0	6	40
Installation and maintenance of micro irrigation systems	1	14	3	17	3	0	3	20
Others (Govt. irrigation schemes)	1	14	3	17	3	0	3	20
<b>VI Plant Protection</b>								
Integrated Pest Management	4	56	12	68	12	0	12	80
<b>TOTAL (A)</b>	<b>24</b>	<b>332</b>	<b>76</b>	<b>408</b>	<b>60</b>	<b>12</b>	<b>72</b>	<b>480</b>
<b>(B) RURAL YOUTH</b>								
Nursery Management of Horticulture crops	2	14	4	18	2	0	2	20
Integrated farming	2	14	4	18	2	0	2	20
Vermi-culture	2	14	4	18	2	0	2	20
Mushroom Production	2	14	4	18	2	0	2	20
Value addition	1	0	8	8	0	2	2	10
Rural Crafts	1	0	8	8	0	2	2	10
Any other (Rainwater harvesting and drip irrigation)	2	14	4	18	2	0	2	20
<b>TOTAL (B)</b>	<b>12</b>	<b>70</b>	<b>36</b>	<b>106</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>120</b>
<b>Grand Total (A+B)</b>	<b>36</b>	<b>402</b>	<b>112</b>	<b>514</b>	<b>70</b>	<b>16</b>	<b>86</b>	<b>600</b>

### G) OFF Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Resource Conservation Technologies	5	70	15	85	15	0	15	100
Cropping Systems	1	14	3	17	3	0	3	20
Crop Diversification	2	28	6	34	6	0	6	40
Soil & water conservation	3	42	9	51	9	0	9	60
Others (pl specify)	1	14	3	17	3	0	3	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low value and high value crops	5	70	15	85	15	0	15	100
Nursery raising	2	28	6	34	6	0	6	40
<b>b) Fruits</b>								
Cultivation of Fruit	1	14	3	17	3	0	3	20
Management of young plants/orchards	2	28	6	34	6	0	6	40
<b>c) Plantation crops</b>								
Production and Management technology	1	14	3	17	3	0	3	20
<b>d) Medicinal and Aromatic Plants</b>								
Production and management technology	1	14	3	17	3	0	3	20
<b>III Livestock Production</b>								
Dairy Management	2	28	6	34	6	0	6	40

Animal Nutrition Management	7	98	21	119	21	0	21	140
Disease Management	3	42	9	51	9	0	9	60
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	2	0	34	34	0	6	6	40
Design and development of low/minimum cost diet	1	0	17	17	0	3	3	20
Designing and development for high nutrient efficiency diet	1	0	17	17	0	3	3	20
Processing and cooking	1	0	17	17	0	3	3	20
Storage loss minimization techniques	1	0	17	17	0	3	3	20
Value addition	2	0	34	34	0	6	6	40
Women empowerment	1	0	17	17	0	3	3	20
Rural Crafts	1	0	17	17	0	3	3	20
Women and child care	1	0	17	17	0	3	3	20
Others (Nutritional and Medicinal properties in Moringa)	1	0	17	17	0	3	3	20
<b>V Agriculture Engineering</b>								
Farm Machinery and its maintenance	6	84	18	102	18	0	18	120
Installation and maintenance of micro irrigation systems	2	28	6	34	6	0	6	40
Production of small tools and implements	1	14	3	17	3	0	3	20
Repair and maintenance of farm machinery and implements	2	28	6	34	6	0	6	40
Others (Soil and water conservation)	1	14	3	17	3	0	3	20
<b>VI Plant Protection</b>								
Integrated Pest Management	6	84	18	102	18	0	18	120
Integrated Disease Management	3	42	9	51	9	0	9	60
Bio-control of pests and diseases	2	28	6	34	6	0	6	40
Others (Seed treatment)	1	14	3	17	3	0	3	20
<b>Total (A)</b>	<b>72</b>	<b>840</b>	<b>384</b>	<b>1224</b>	<b>180</b>	<b>36</b>	<b>216</b>	<b>1440</b>
<b>(B) Extension Personnel</b>								
Productivity enhancement in field crops	04	52	0	52	8	0	8	60
Integrated Pest Management	03	39	0	39	6	0	6	45
Protected cultivation technology	04	52	0	52	8	0	8	60
Care and maintenance of farm machinery and implements	02	0	26	26	0	4	4	30
Women and Child care	02	26	0	26	4	0	4	30
Low cost and nutrient efficient diet designing	02	26	0	26	4	0	4	30
Management in farm animals	03	39	0	39	6	0	6	45
Livestock feed and fodder production	01	13	0	13	2	0	2	15

Any others	03	39	0	39	6	0	6	45
<b>Total (B)</b>	<b>24</b>	<b>286</b>	<b>26</b>	<b>312</b>	<b>44</b>	<b>4</b>	<b>48</b>	<b>360</b>
<b>TOTAL (A+B)</b>	<b>96</b>	<b>1126</b>	<b>410</b>	<b>1536</b>	<b>224</b>	<b>40</b>	<b>264</b>	<b>1800</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Resource Conservation Technologies	6	84	18	102	18	0	18	120
Integrated Crop Management	1	14	3	17	3	0	3	20
Soil & water conservation	4	56	12	68	12	0	12	80
Crop Diversification	3	42	9	51	9	0	9	60
Cropping Systems	1	14	3	17	3	0	3	20
Others (pl specify)	1	14	3	17	3	0	3	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low value and high value crops	6	84	18	102	18	0	18	120
Nursery raising	2	28	6	34	6	0	6	40
<b>b) Fruits</b>								
Cultivation of Fruit	2	28	6	34	6	0	6	40
Rejuvenation of old orchards	1	14	3	17	3	0	3	20
Management of young plants/orchards	2	28	6	34	6	0	6	40
<b>c) Ornamental Plants</b>								
Nursery Management	1	14	3	17	3	0	3	20
<b>d) Plantation crops</b>								
Production and Management technology	1	14	3	17	3	0	3	20
<b>e) Medicinal and Aromatic Plants</b>								
Production and management technology	1	14	3	17	3	0	3	20
<b>III Livestock Production</b>								
Dairy Management	3	42	9	51	9	0	9	60
Animal Nutrition Management	8	112	24	136	24	0	24	160
Disease Management	5	70	15	85	15	0	15	100
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	3	0	51	51	0	9	9	60
Minimization of nutrient loss in processing	1	0	17	17	0	3	3	20
Processing and cooking	3	0	51	51	0	9	9	60
Design and development of low/minimum cost diet	1	0	17	17	0	3	3	20
Designing and development for high nutrient efficiency diet	1	0	17	17	0	3	3	20



Storage loss minimization techniques	1	0	17	17	0	3	3	20
Value addition	2	0	34	34	0	6	6	40
Women empowerment	1	0	17	17	0	3	3	20
Rural Crafts	1	0	17	17	0	3	3	20
Women and child care	1	0	17	17	0	3	3	20
Others (Nutritional and Medicinal properties in Moringa)	1	0	17	17	0	3	3	20
<b>V Agriculture Engineering</b>								
Farm Machinery and its maintenance	8	112	24	136	24	0	24	160
Installation and maintenance of micro irrigation systems	3	42	9	51	9	0	9	60
Production of small tools and implements	1	14	3	17	3	0	3	20
Repair and maintenance of farm machinery and implements	2	28	6	34	6	0	6	40
Others (Soil and water conservation; Govt. irrigation schemes)	2	28	6	34	6	0	6	40
<b>VI Plant Protection</b>								
Integrated Pest Management	10	140	30	170	30	0	30	200
Integrated Disease Management	3	42	9	51	9	0	9	60
Bio-control of pests and diseases	2	28	6	34	6	0	6	40
Others (pl specify)	1	14	3	17	3	0	3	20
<b>Total (A)</b>	<b>96</b>	<b>1120</b>	<b>512</b>	<b>1632</b>	<b>240</b>	<b>48</b>	<b>288</b>	<b>1920</b>
<b>(B) Rural Youth</b>								
Nursery Management of Horticulture crops	2	14	4	18	2	0	2	20
Integrated farming	2	14	4	18	2	0	2	20
Vermi-culture	2	14	4	18	2	0	2	20
Mushroom Production	2	14	4	18	2	0	2	20
Value addition	1	0	8	8	0	2	2	10
Rural Crafts	1	0	8	8	0	2	2	10
Any other (Rainwater harvesting and drip irrigation)	2	14	4	18	2	0	2	20
<b>TOTAL (B)</b>	<b>12</b>	<b>70</b>	<b>36</b>	<b>106</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>120</b>
<b>(B) Extension Personnel</b>								
Productivity enhancement in field crops	04	52	0	52	8	0	8	60
Integrated Pest Management	03	39	0	39	6	0	6	45
Protected cultivation technology	04	52	0	52	8	0	8	60
Care and maintenance of farm machinery and implements	02	0	26	26	0	4	4	30
Women and Child care	02	26	0	26	4	0	4	30
Low cost and nutrient efficient diet designing	02	26	0	26	4	0	4	30
Management in farm animals	03	39	0	39	6	0	6	45

Livestock feed and fodder production	01	13	0	13	2	0	2	15
Any others	03	39	0	39	6	0	6	45
<b>Total (C)</b>	<b>24</b>	<b>286</b>	<b>26</b>	<b>312</b>	<b>44</b>	<b>4</b>	<b>48</b>	<b>360</b>
<b>TOTAL (A+B+C)</b>	<b>132</b>	<b>1476</b>	<b>574</b>	<b>2050</b>	<b>294</b>	<b>56</b>	<b>350</b>	<b>2400</b>

**Note:-** Details of training programme attached in **Annexure –I**

### 3.4. Extension activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	14	600	35	635	15	-	15	615	35	650
Kisan Mela	1	175	40	215	15	10	25	190	50	240
Kisan Goshthi	6	828	192	1020	72	48	120	900	240	1140
Exhibition	1	210	20	230	20	-	20	230	20	250
Group meetings	5	75	20	95	05	-	5	80	20	200
Lectures delivered as resource persons	50	2310	90	2400	90	10	100	2400	100	2500
Newspaper coverage	80	-	-	-	-	-	-	-	-	Mass
Radio talks	15	-	-	-	-	-	-	-	-	Mass
TV talks	20	-	-	-	-	-	-	-	-	Mass
Popular articles	12	-	-	-	-	-	-	-	-	Mass
Extension Literature	20	-	-	-	-	-	-	-	-	10000
Advisory Services	250	215	35	250	-	-	-	215	35	250
Scientific visit to farmers field	120	115	5	120	-	-	-	115	5	120
Farmers visit to KVK	600	540	60	600	-	-	-	540	60	600
Diagnostic visits	50	48	2	50	-	-	-	48	2	50
Exposure visits	4	150	50	200	-	-	-	150	50	200
Soil health Camp	1	100	-	100	-	-	-	100	-	100
Animal Health Camp	1	200	-	200	-	-	-	200	-	200 Animal
Soil test campaigns	1	100	-	100	-	-	-	100	-	100
Celebration of important days (specify)	1	250	25	275	20	5	25	275	25	300
Pre Kharif workshop	1	180	10	190	10	-	10	190	10	200
Pre Rabi workshop	1	180	10	190	10	-	10	190	10	200
PPVFRA workshop	1	88	12	100	-	-	-	88	12	100
Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Soil Health Cards distribution	1	980	20	1000	-	-	-	980	20	1000
<b>Total</b>	<b>1256</b>	<b>7344</b>	<b>626</b>	<b>7970</b>	<b>257</b>	<b>73</b>	<b>330</b>	<b>7606</b>	<b>694</b>	<b>18400</b>



### 3.5 Target for Production and supply of Technological products:

#### Seed materials

Sl. No.	Crop	Variety	Area (ha)	Quantity (qtl)	Distributed to the farmers (Nos.)
Cereals	Wheat	DBW-187, HD-3226	7.0	200.00	05
	Paddy	PB-1509,1718	2.0	70.00	04
		<b>Total</b>	<b>9.0</b>	<b>270.00</b>	<b>09</b>
Commercial	Jowar	-	3.0	-	

#### Planting materials

Sl. No.	Crop	Variety	Quantity (Nos.)	Distributed to the farmers (Nos.)
Fruits	Papaya	Pusa Nanha, Tywan	1000	10
	Tomato	Pusa hybrid -2	2500	25
Vegetables	Chilli	Pusa Sadabahar, Pusa Jwala,	1000	10
		Chanchal	2000	20
	Brinjal	Black beauty	2500	25
		Bheema	2000	20
		Mohit	2000	20
	Cauliflower	K – 1	1000	10
		Snowball	1000	10
Cabbage	Green flesh	1500	15	
Forest species	Popular	G-48	1500	15
		Uday	1500	15
Ornamental crops	Mari Gold	Pusa Narangi / Pusa basanti	2500	25
		<b>Total</b>	<b>20000</b>	<b>200</b>

#### Bio-products:

S. No.	Particulars	Area (ha)	Target Production (q)
1	Vermi- compost	198 m <sup>2</sup>	200.0

#### Fisheries:

S. No.	Particulars	Area (ha)	Target Production (q)
1	Fisheries	700 m <sup>2</sup>	2.0

### 3.6 Literature to be Developed/Published

- (A) **KVK News Letter** :
- Date of start : July 2020
- Number of copies to be published : 1000

#### (B) Literature Developed/Published

S. No.	Topic	No.	Name of Journal/literature
1	Research paper by each scientist	03	NAAS rated journals
2	Technical reports	06	-
3	News letters	4	-
4	Training manual all discipline	2	-
5	Popular article	12	-
6	Extension literature	12	-
	<b>Total</b>	<b>39</b>	

**(C) Details of electronic media to be produced:**

Nil

**3.7. Success Stories/Case Studies Identified for Development as a Case. (5 by each KVK)**

**Success story 1:**

a. Brief introduction

To introduce new cropping pattern (paddy-mustard-sugarcane)

b. Interventions:

Due to current cropping (sugarcane-wheat-sugarcane), sowing of sugarcane is affected because after harvesting of wheat only, it will be possible to cultivate sugarcane (after first half of April month), with which production of sugarcane is totally affected. But if we'll use this cropping pattern (paddy-mustard-sugarcane), then cultivation of sugarcane will be on time (in February month) and production will be better.

c. Output:

Increase of yield in sugarcane

d. Outcomes:

- Less irrigation water requirement
- Increment in yield production
- Chances of less diseases and pests attack

e. Impact

i) Social economic:

Financial income of the farmers increases.

ii) Bio-Physical

- Appropriate no. of plants
- Better growth and production

f. Good Action Photographs:

To be produced

**Success story 2:**

a. Brief introduction:

Borers management through Tricho-cards in sugarcane

b. Interventions:

Conventional method of Borers management in sugarcane is done by application of various chemicals available in a market. However, the borer control through Tricho-cards is a bio-control measure. It is very cost effective and five cards will be tagged at the interval of 15 days for one hectare.

c. Output:

Anticipated yield up to 950-1000 q/ha

d. Outcomes:

- Easy to apply Tricho-cards.
- No chemical side effects

e. Impact

i) Social economic:

- Financial income of the farmers increases.
- Inputs cost reduce

ii) Bio-Physical

- Eco friendly

f. Good Action Photographs:

To be produced

**Success story 3:**

a. Brief Introduction:

Intercropping of onion in Sugarcane

b. Interventions:

The sole cultivation of sugarcane is done in Baghpat district. The Intercropping of onion in sugarcane will be encouraged for generating the additional income of the farmers from same field.

c. Output:

- Additional income
- Additional yield of onion

d. Outcomes:

- Suitable to small and marginal farmers

e. Impact

i) Social economic:

Financial income of the farmers increases.

ii) Bio-Physical:

f. Good Action Photographs:

To be produced

**Success story 4:**

a. Brief Introduction:

Intercropping of garlic in sugarcane

b. Interventions:

The sole cultivation of sugarcane is done in Baghpat district. The Intercropping of garlic in sugarcane will be encouraged for generating the additional income of the farmers from same field.

c. Output:

- Additional income
- Additional yield of garlic

d. Outcomes:

- Suitable to small and marginal farmers

e. Impact

i) Social economic:

Financial income of the farmers increases.

ii) Bio-Physical:

f. Good Action Photographs:

To be produced

#### **Success story 5:**

a. Brief Introduction:

Intercropping of legume crops (urd and moong) in sugarcane

b. Interventions:

The sole cultivation of sugarcane is done in Baghpat district. The Intercropping of legume crops i.e. urd and moong in sugarcane will be encouraged for generating the additional income of the farmers from same field.

c. Output:

- Additional income
- Additional yield of legume crops

d. Outcomes:

- Suitable to small and marginal farmers

e. Impact

i) Social economic:

- Financial income of the farmers increases.
- Nitrogen based fertilizer will be reduced.

ii) Bio-Physical:

- Organic as well as rhizobium culture will be enhanced to improve the soil.

f. Good Action Photographs:

To be produced

## Training Programme

### i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>I Crop Production</b>										
08-02-2023	PF	Important points in sugarcane production	01	17	-	17	3	-	3	20
08-05-2023	PF	Drought contingency plan for Kharif crops	01	17	-	17	3	-	3	20
08-09-2023	PF	Efficient management of the crop residue is important for sustaining the productivity of natural resources	01	17	-	17	3	-	3	20
10-10-2023	PF	Intercropping with autumn planting cane	01	17	-	17	3	-	3	20
<b>II Horticulture</b>										
15-02-2023	PF	Production techniques of cucurbits	01	17	-	17	3	-	3	20
15-05-2023	PF	Management of flower dropping in fruits	01	17	-	17	3	-	3	20
17-07-2023	PF	Nursery management of marigold	01	17	-	17	3	-	3	20
16-12-2023	PF	Rejuvenation of old mango orchard	01	17	-	17	3	-	3	20
<b>III Livestock Production</b>										
20-02-2023	PF	Mastitis : its causes and prevention	01	17	-	17	3	-	3	20
13-04-2023	PF	FMD: its symptoms and prevention	01	17	-	17	3	-	3	20
11-08-2023	PF	Clean milk production	01	17	-	17	3	-	3	20
24-10-2023	PF	Importance of Mineral mixture in dairy animals	01	17	-	17	3	-	3	20
<b>IV Home Science &amp; Women empowerment</b>										
15-03-2023	PFW	Cultivation of nutri-garden	01	-	17	17	-	3	3	20
25-04-2023	PFW	Nutritional importance & recipes of Mushroom	01	-	18	18	-	2	2	20
08-08-2023	PFW	Processing of soybean for food uses	01	-	17	17	-	3	3	20
18-10-2023	PFW	Fruit and vegetable preservation	01	-	17	17	-	3	3	20
<b>V Agriculture Engineering</b>										
05-01-2023	PF	Introduction to Ratoon manager device (RMD)	01	17	-	17	3	-	3	20
18-05-2023	PF	Application of solar pump in irrigation	01	17	-	17	3	-	3	20
15-09-2023	PF	Introduction to reaper binder machine	01	17	-	17	3	-	3	20
27-11-2023	PF	Introduction to Govt. irrigation schemes	01	17	-	17	3	-	3	20
<b>VI Plant Protection</b>										
17-02-2023	PF	Management of pests in summer pulses	01	17	-	17	3	-	3	20
12-04-2023	PF	Control of insect pests in stored grains	01	17	-	17	3	-	3	20
13-07-2023	PF	Integrated pest management in paddy	01	17	-	17	3	-	3	20
03-11-2023	PF	Integrated pest management in mango orchard	01	17	-	17	3	-	3	20

**ii) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>I Crop Production</b>										
05-01-2023	PF/PFW	Ratoon management	01	17	-	17	03	-	03	20
03-02-2023	PF/PFW	Round the year fodder production	01	17	-	17	03	-	03	20
03-03-2023	PF/PFW	Planting of spring cane	01	17	-	17	03	-	03	20
05-04-2023	PF/PFW	Intercropping with spring cane	01	17	-	17	03	-	03	20
04-05-2023	PF/PFW	Importance of Natural farming in Agriculture	01	17	-	17	03	-	03	20
06-06-2023	PF/PFW	Production technology of Basmati Rice	01	17	-	17	03	-	03	20
07-07-2023	PF/PFW	Introduction of Govt. schemes	01	17	-	17	03	-	03	20
08-08-2023	PF/PFW	Crop residue management	01	17	-	17	03	-	03	20
22-09-2023	PF/PFW	Production technology of mustard	01	17	-	17	03	-	03	20
10-10-2023	PF/PFW	Importance of Natural farming in Agriculture	01	17	-	17	03	-	03	20
08-11-2023	PF/PFW	Introduction of timely sown wheat varieties & its production technology	01	17	-	17	03	-	03	20
08-12-2023	PF/PFW	Introduction of late sown wheat varieties & its production technology	01	17	-	17	03	-	03	20
<b>II Horticulture</b>										
20-01-2023	PF/PFW	Care and management of mango orchard	01	17	-	17	03	-	03	20
25-02-2023	PF/PFW	Cultivation technique of summer vegetables	01	17	-	17	03	-	03	20
17-03-2023	PF/PFW	Cultivation of aromatic & medicinal crop	01	17	-	17	03	-	03	20
15-04-2023	PF/PFW	Nursery management of early Cauliflower.	01	17	-	17	03	-	03	20
11-05-2023	PF/PFW	Scientific cultivation of papaya	01	17	-	17	03	-	03	20
23-06-2023	PF/PFW	Fertilizer management in Marigold crop.	01	17	-	17	03	-	03	20
25-07-2023	PF/PFW	Nursery management of Tomato	01	17	-	17	03	-	03	20
14-08-2023	PF/PFW	Propagation & production technique of guava orchard	01	17	-	17	03	-	03	20
20-09-2023	PF/PFW	Nursery raising of Marigold	01	17	-	17	03	-	03	20
21-10-2023	PF/PFW	Cucurbits production techniques	01	17	-	17	03	-	03	20
18-11-2023	PF/PFW	Production techniques of garden pea	01	17	-	17	03	-	03	20
09-12-2023	PF/PFW	Training & pruning in mango orchard	01	17	-	17	03	-	03	20
<b>III Livestock Production</b>										
18-01-2023	PF/PFW	FMD: It's symptoms and prevention	01	17	-	17	03	-	03	20
24-02-2023	PF/PFW	Care and management of pregnant animals	01	17	-	17	03	-	03	20
20-03-2023	PF/PFW	Mastitis : its causes and prevention	01	17	-	17	03	-	03	20
19-04-2023	PF/PFW	Clean milk production	01	17	-	17	03	-	03	20
20-05-2023	PF/PFW	Management of infertility in dairy animals	01	17	-	17	03	-	03	20
12-06-2023	PF/PFW	Heat stress: It's causes ,symptoms and prevention in dairy animals	01	17	-	17	03	-	03	20
26-07-2023	PF/PFW	Importance of Mineral mixture in dairy animals	01	17	-	17	03	-	03	20

23-08-2023	PF/PFW	Management of Bloat in animals	01	17	-	17	03	-	03	20
04-09-2023	PF/PFW	Care and management of newly born calves	01	17	-	17	03	-	03	20
20-10-2023	PF/PFW	Importance of balance ration in dairy animals	01	17	-	17	03	-	03	20
20-11-2023	PF/PFW	Care and management of calves during winter	01	17	-	17	03	-	03	20
18-12-2023	PF/PFW	Green fodder production throughout the year	01	17	-	17	03	-	03	20
<b>IV Home Science &amp; Women empowerment</b>										
10-01-2023	PF/PFW	Fortification of food	01	-	17	17	-	03	03	20
21-02-2023	PF/PFW	Importance of fruits and vegetable in diet.	01	-	17	17	-	03	03	20
25-03-2023	PF/PFW	Processing of soybean for food uses	01	-	17	17	-	03	03	20
11-04-2023	PF/PFW	Biofortified crops and nutria-sensitive diet	01	-	17	17	-	03	03	20
18-05-2023	PF/PFW	Nutritional and medicinal importance of moringa.	01	-	17	17	-	03	03	20
16-06-2023	PF/PFW	Role of self help group in income generation	01	-	17	17	-	03	03	20
14-07-2023	PF/PFW	Nutrition and safe motherhood.	01	-	17	17	-	03	03	20
18-08-2023	PF/PFW	Preparation of macramé article	01	-	17	17	-	03	03	20
14-09-2023	PF/PFW	Nutri-sensitive balance diet	01	-	17	17	-	03	03	20
20-10-2023	PF/PFW	Nutritional farming and establishment of kitchen garden	01	-	17	17	-	03	03	20
09-11-2023	PF/PFW	Nutritional deficiency diseases and their management	01	-	17	17	-	03	03	20
15-12-2023	PF/PFW	Safe Grain storage.	01	-	17	17	-	03	03	20
<b>V Agriculture Engineering</b>										
20-01-2023	PF/PFW	Tractor daily maintenance check	01	17	-	17	03	-	03	20
22-02-2023	PF/PFW	Implement attachment and setting on the tractor	01	17	-	17	03	-	03	20
18-03-2023	PF/PFW	Introduction to soil moisture meter	01	17	-	17	03	-	03	20
17-04-2023	PF/PFW	How to ballast tractor tyre	01	17	-	17	03	-	03	20
22-05-2023	PF/PFW	Fuel saving tips	01	17	-	17	03	-	03	20
10-06-2023	PF/PFW	Introduction to concept of matching implements	01	17	-	17	03	-	03	20
24-07-2023	PF/PFW	MB Plough setting	01	17	-	17	03	-	03	20
21-08-2023	PF/PFW	Alternate wetting drying technique	01	17	-	17	03	-	03	20
06-09-2023	PF/PFW	Use of reaper binder machine	01	17	-	17	03	-	03	20
18-10-2023	PF/PFW	Benefits of drip irrigation	01	17	-	17	03	-	03	20
22-11-2023	PF/PFW	Benefits of power harrow	01	17	-	17	03	-	03	20
20-12-2023	PF/PFW	Rainwater harvesting structures	01	17	-	17	03	-	03	20
<b>VI Plant Protection</b>										
18-01-2023	PF/PFW	Application of bio-agents in vegetables	01	17	-	17	03	-	03	20
24-02-2023	PF/PFW	Control of early shoot borer in sugarcane	01	17	-	17	03	-	03	20
20-03-2023	PF/PFW	Control of insect pests in maize	01	17	-	17	03	-	03	20
19-04-2023	PF/PFW	Management of pokkah boeng disease	01	17	-	17	03	-	03	20
20-05-2023	PF/PFW	Control of borers in sugarcane	01	17	-	17	03	-	03	20



		through Tricho-cards									
12-06-2023	PF/PFW	Disease of paddy nursery and their management	01	17	-	17	03	-	03	20	
26-07-2023	PF/PFW	Control of leaf folder and stem borer in paddy	01	17	-	17	03	-	03	20	
23-08-2023	PF/PFW	Management of diseases in paddy	01	17	-	17	03	-	03	20	
04-09-2023	PF/PFW	Control of BPH in paddy	01	17	-	17	03	-	03	20	
20-10-2023	PF/PFW	Disease and pest management in mustard	01	17	-	17	03	-	03	20	
20-11-2023	PF/PFW	Methods of seed treatment and its importance in <i>Rabi</i> crops	01	17	-	17	03	-	03	20	
18-12-2023	PF/PFW	Control of mealy bug in mango	01	17	-	17	03	-	03	20	

### iii) Vocational training programmes for rural youth:

Crop / Enterprise	Identified Thrust Area	Training title	Month	Duration (days)	No. of Participant			SC/ST participants			G. Total
					M	F	T	M	F	T	
Bio/ Natural farming	Bio/ Natural farming	Important methods in Bio/ Natural farming	May, 2023	05	07	02	09	01	0	01	10
Bio/ Natural farming	Bio/ Natural farming	Important methods in Bio/ Natural farming	Nov., 2023	05	07	02	09	01	0	01	10
Vegetable	Nursery management of cucurbits	Low poly tunnel tech. of cucurbits nursery	May 2023	05	07	02	09	01	0	01	10
Vegetable	Nursery management of Rabi crops	Low poly tunnel tech. of capsicum and tomato nurseries	Oct. 2023	05	07	02	09	01	0	01	10
Vermi-compost	Bio farming	Vermi-compost production and it's uses	Feb. 2023	05	07	02	09	01	0	01	10
Vermi-compost	Bio farming	Vermi-compost production and it's uses	June, 2023	05	07	02	09	01	0	01	10
Fruit & vegetable	Preservation management/ value addition	Fruit & vegetables preservation	Feb. 2023	05	-	08	08	-	02	02	10
Handicraft	Income generation	Developing skill of handicraft	June, 2023	05	-	08	08	-	02	02	10
Rooftop rainwater harvesting	Agri. Engineering	Introduction to rooftop rainwater harvesting structure	Mar. 2023	05	07	02	09	01	0	01	10
Drip irrigation	Agri. Engineering	Planning and design of drip irrigation system	Aug. 2023	05	07	02	09	01	0	01	10
Mushroom Production	Very less production of mushroom in the region and lack of awareness about same	Mushroom Production Technology	Feb., 2023	05	07	02	09	01	0	01	10
Mushroom Production	Very less production of mushroom in the region and lack of awareness about same	Mushroom Production Technology	Sept., 2023	05	07	02	09	01	0	01	10



**iv) Training programme for extension functionaries:**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
20-01-2023	EF	Cow based Natural farming for sustainable agriculture production	1	13	-	13	2	-	2	15
12-04-2023	EF	Crop diversification improves water productivity through Resource Conservation Technology	1	13	-	13	2	-	2	15
22-08-2023	EF	Introduction of improved mustard varieties	1	13	-	13	2	-	2	15
01-12-2023	EF	Introduction of late sown wheat varieties & its production technology	1	13	-	13	2	-	2	15
06-02-2023	EF	Cultivation techniques of bitter guard	1	13	-	13	2	-	2	15
26-06-2023	EF	Selection of plant and cultivation techniques of guava	1	13	-	13	2	-	2	15
17-08-2023	EF	Techniques of gladiolus cultivation	1	13	-	13	2	-	2	15
28-12-2023	EF	Nursery management of cucurbits	1	13	-	13	2	-	2	15
24-01-2023	EF	Importance of vaccination in animals	1	13	-	13	2	-	2	15
08-06-2023	EF	Mastitis : its causes and prevention	1	13	-	13	2	-	2	15
06-07-2023	EF	FMD: symptoms and prevention	1	13	-	13	2	-	2	15
05-10-2023	EF	Importance of Mineral mixture in dairy animals	1	13	-	13	2	-	2	15
02-03-2023	AWW	Iron deficiency its symptoms, causes and treatment	1	-	13	13	-	2	2	15
11-05-2023	AWW	Nutrient efficient diet for adolescents	1	-	13	13	-	2	2	15
08-09-2023	AWW	Cultivation of nutrigarden	1	-	13	13	-	2	2	15
24-11-2023	AWW	Poshan thali	1	-	13	13	-	2	2	15
30-01-2023	EF	Introduction to Soil moisture indicator	1	13	-	13	2	-	2	15
15-06-2023	EF	Cost of operation in Custom hiring centre	1	13	-	13	2	-	2	15
19-08-2023	EF	Alternate wetting drying technique	1	13	-	13	2	-	2	15
05-10-2023	EF	Protective use of sprayer	1	13	-	13	2	-	2	15
11-01-2023	EF	Safe handling and use of pesticides	1	13	-	13	2	-	2	15
12-05-2023	EF	Role of Tricho-cards in pest management	1	13	-	13	2	-	2	15
19-07-2023	EF	Integrated pest and disease management in paddy	1	13	-	13	2	-	2	15
12-10-2023	EF	Use and importance of bio-pesticides in natural farming	1	13	-	13	2	-	2	15

**NICRA ACTION PLAN**  
(January-December 2023)

**Village: Shikhera/Patoli/Daulatpur**

**Module-1: Natural Resource Management**

Intervention	Technology to be demonstrated	Critical input (Variety, Fertilizer / Chemicals doses,)	Details of activity	No. of farmers	Area (ha)	Measurable indicators of output	Cost born by Project (Rupees)
1	2	3	4	5	6	7	8
In-situ moisture conservation RCT	Promotion of less water requiring crop (Mustard)	i). Seed - 40Kg @ Rs. 100/- Kg	Pusa R.H 749 @4Kg/ha	25	10	Yield	4000.00
	Demonstration of soil moisture meter	Soil moisture soil	2- Soil moisture soil	25	5	Water saving	2000.00
	Promotion of less water requiring crop in Kharif (Black gram)	Seed- 150Kg @ Rs. 75/- Kg	Shekhar 2 @15Kg/ha	50	10	Yield	11,250.00
Any other (Pl. specify)	Improve organic matter in soil by Green manuring	i)Seed - 300 Kg @ Rs.50/- Kg ii) Soil testing @ Rs. 200 /sampling	Dhaincha Seed 60Kg/ha	25	05	Soil status Before & After green manuring	15,000.00 5000.00
	Promotion of Hydrogel for Water saving in Paddy crop	Hyderogel -25 kg @ 1500 /kg,	Hyderogel @ 2.5 kg/ha.	50	10	Water saving	37,500.00
	Promotion of Waste decomposer for crop residue management	Waste decomposer	Waste decomposer @2 Unit per	50	20	CRM	2000.00
Kitchen gardening	To provide more nutrition throughout the year	Vegetable seed kit @ Rs.100 / kit	Vegetable kit	25	-	To provide more nutrition for human	2500.00
<b>Total</b>							<b>79,250.00</b>

### Module-2: Crop Production

Intervention	Technology to be demonstrated	Critical input (Variety, Fertilizer / Chemicals doses,)	Details of activity	No. of farmers	Area (ha)	Measurable indicators of out put	Cost born by Project (Rupees)
Good nutritional quality variety	High yielding variety Late sown	Seed- 2500 Kg @ Rs. 50 /Kg ii) Soil testing @ Rs. 200 /sampling	DBW- 173/ HD 3059 @ 125Kg/ha,	50	20	Yield & Soil Sampling	125000.00 20000.0
Insect control through bio-agent	Application of tricho cards to control the borers	Tricho cards- 400 @ Rs. 50 /cards. (5x4x20=400 cards)	Punching of tricho cards in sugarcane Tricho cards- 5 /ha.	100	20	Yield	20000.00
Field Day	Field day on sugarcane and wheat demo. field	Working lunch, Pen , pad, Banner, etc	Increased knowledge level of farmers	75	03 no.	Adaptations of tech.	3000.00
<b>Total</b>							<b>1,68,000</b>

### Module-3: Livestock & Fisheries

Intervention	Technology to be demonstrated	Critical input (Breed / Variety / Medicine doses,)	Details of activity	No. of farmers	Unit / No. / Area (ha)	Measurable indicators of output	Cost born by Project (Rupees)
Use of community lands for fodder production during droughts / floods	Improved Berseem variety	Seed 125 Kg @ Rs. 200/- Kg	Production of green fodder - Variety: BL-10 /JHB-146 @25 kg/ha	25	05	Yield	25000.00
Animal health check-up camp	A.H. Camp	Services	Use of locally stems and health & hygiene	100	200 animals	Check mortality & production	45000.00
<b>Total</b>							<b>70,000.00</b>

### Module-4: Institutional Interventions:

Interventions	Technology to be demonstrated	Critical input	Details of activity	No. of farmers	Unit / No. / Area (ha)	Measurable indicators of output	Cost born by Project (Rupees)
1	2	3	4	5	6	7	8

Climate literacy through a village level weather station	Exposure to weather station at KVK	Working lunch, Pen, Pad, Banner, Trawling fair etc	Knowledge about weather	20	01	Implementation of weather related in formations in field	3000.00
HRD	CRM	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	40	02	Adoption of RCT paddy wheat etc	2000.00
	Know the soil fertility status	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	40	02	Use of balance fertilizer	2000.00
	Innovative approaches on oil seeds crops	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	40	02	Skill and knowledge up gradation in performing agricultural operations	2000.00
	Importance of summer ploughing	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Adoption of RCT	1000.00
	Mechanization in Sugarcane cultivation	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Skill and knowledge up gradation agricultural operations	1000.00
	Fodder and feed management	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Tech. of green fodder production	1000.00
	Health awareness	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Importance of Pulses for growing kids	1000.00
	Seed production	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Seed production tech of legumes	1000.00
	Awareness	Working lunch,	Increased knowledge	20	01	Safe use of grain storage	1000.00

		Pen, Pad, Banner, etc	level of farmers				
	RCT	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Tech. of water conservation in soil	1000.00
	Awareness	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Tech. of vegetable production	1000.00
	RCT	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Nutrients management in orchards	1000.00
	Soil health	Working lunch, Pen, Pad, Banner, etc	Increased knowledge level of farmers	20	01	Use of crop residue and green manure in soil	1000.00
Any other (Pl. specify)	Exposure visit at IARI, New Delhi SVPDAT, Meerut	Working lunch, Trawling fair etc	Knowledge about	100	02	Adoption of new technologies	50000.00
<b>Total</b>							<b>69000.00</b>

### Summary of budget (2023)

Heads Recurring		Amount (Rs)
<b>I. Contingency</b>		
1. Conducting Bench mark survey		-
2. Project Launching programme		-
3. Operational expenditure	Natural Resource Management	77250.00
	Crop Production	168000.00
	Live stock & Fisheries	70000.00
	Institutional Interventions	69000.00
1. SRF 1 No) Salary + HRA ( @ Rs35000 + HRA 10 % )		462000.00
2. POL/Vehicles		20000.00
3. Office rent for 12 months @ Rs 1250.00 per month		15000.00
4. Stationery, Report preparing, Office running expenditure		15000.00
5. Miscellaneous Expenditure		15000.00
<b>II. T A</b>		20000.00
<b>Total</b>		<b>9,13,250.00</b>

## NARI ACTION PLAN (January-December 2023)

### Training programme for Farm women

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
10-01-2023	PFW	Fortification of food	1	-	18	18	-	2	2	20
25-04-2023	PFW	Processing of soybean for food uses	1	-	18	18	-	2	2	20
18-05-2023	PFW	Nutritional importance of moringa	1	-	18	18	-	2	2	20
14-09-2023	PFW	Biofortified crops and nutria-sensitive diet	1	-	18	18	-	2	2	20
18-10-2023	PFW	Cultivation of kitchen garden	1	-	18	18	-	2	2	20
20-10-2023	PFW	Fruit and vegetable preservation	1	-	18	18	-	2	2	20
09-11-2023	PFW	Nutritional deficiency diseases and their management	1	-	18	18	-	2	2	20

### Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
02-03-2023	AWW	Iron deficiency its symptoms, causes and treatment	1	-	13	13	-	2	2	15
24-02-2023	AWW	Poshan thali	1	-	13	13	-	2	2	15
11-05-2023	AWW	Nutrient efficient diet for adolescents	1	-	13	13	-	2	2	15
08-09-2023	AWW	Cultivation of nutrigarden	1	-	13	13	-	2	2	15

### Other extension activities:

S. No.	Title	No.	No of participants
1	Goshthi	1	100
2	National nutrition week	1	100
3	Poshan maah	5	500
4	World food day	1	100
5	Health camp	1	100
6	Advisory message through whatsApp	25	100
7	Mobile advisory through voice message	25	100

### On Farm Trial- 01

Thematic Area	Nutritional Security
Problem diagnosed	Low nutritional status and Malnutrition of Farm women
Title	Assessment of the effective supplementation of multigrain flour for improvement of nutritional status of Farm Women
Technology options: Farmers Practice (T <sub>1</sub> )	Wheat flour only (Protein 10-11%, Iron 1.0-1.2 mg/100 gm)
Technology to be	Multigrain flour (wheat flour75%)+ Gram Flour (20%) + Barley Flour

assessed (T <sub>2</sub> )	(5%) for 180 days ((Protein 14-15%, Iron 2.0-2.4 mg/100 gm),to Farm women aged 35-40yrs. (sedentary worker.from medium SES).
Source of Technology	NIN , Hyderabad
Year	2012
Critical Input	Gram Flour(70 gm/day) + Barley Flour (17.50gram/day)
Expenditure	Rs. 1500/ trial
Parameter observation	<ul style="list-style-type: none"> <li>• Physical parameter</li> <li>• Nutritional parameter,</li> </ul> Economic and sensory parameter. (As per format developed and provided under NARI Programme

### OFT-2

<b>Title</b>	Efficiency assessment of Naveen Dibbler for sowing of bold seeded crops specifically Bengal gram
<b>Problem diagnosed</b>	Drudgery involved in sowing activity
<b>Production system and thematic area</b>	Location specific drudgery reduction technologies
<b>Farmers' Practices</b>	Manual sowing of seeds
<b>Technology identified for solution</b>	T1- Naveen Dibbler
<b>No. of farmer</b>	03
<b>Critical inputs</b>	Naveen Dibbler
<b>Source of technology</b>	Central Institute of Agriculture Engineering Bhopal (MP)
<b>Total Cost</b>	1000
<b>Observation to be taken</b>	Reduction in overall drudgery
<b>Performance indicators:</b>	
<b>i Technical</b>	1.Physiological cost of work 2.Energy Expenditure 3.Change in Grip Strength 4.Musculoskeletal Discomfort perceived 5.Time taken / m <sup>2</sup>
<b>ii. Economical</b>	Saving in wages
<b>iii. Social</b>	1.Acceptability 2.Attitude towards technology

### Details of FLDs other than Oilseeds and Pulses to be Organized

Sl. No.	Crop	Variety	Thematic area	Technology for demo.	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo.	Parameters identified
1	Fruit & vegetable	Availability from IARI New Delhi	Nutritional garden	Nutritional garden	Mini seed kit	Zaid 2023 Kharif 2023 & Rabi 2023-24	0.45	30	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Cost of cultivation</li> <li>• Net return</li> <li>• C:B ratio</li> <li>• Monthly saving</li> </ul>
2	Mango	-	Value addition	75% sugar/kg. of Fruit pulp used, 3 gram citric acid /Kg	Apple, sugare and citric acid	Rabi 23-24	-	20	<ul style="list-style-type: none"> <li>• C:B ratio</li> </ul>

## Gramin Krishi Mousam Sewa Action Plan 2023

### *Awareness Programme-*

<b>Date</b>	<b>Programme</b>	<b>Venue</b>
02-01-2023	Use of agro advisory in oilseed production	Katha , Khekra
12-01-2023	Weather effect in potato production	Lehchoda ,Pilana
16-01-2023	Agroadvisory Value addition and dissemination	Chhaprauli
19-01-2023	Use of Meghdoot & Damini App	Binauli
09-02-2023	Mausam anurup Krishi	Sankarputhi, Baghpat
17-02-2023	Faslotpadan me mausam purvanuman ka mehatv	Baraut
23-02-2023	Mausam anurup Krishi	Khekra
16-03-2023	”Importance of Agroadvisory for Milk production “	Pilana
21-03-2023	“Use of Meghdoot & Damini App “	Chhaprauli
24-03-2023	Farmers meet With Khekra Farmers	Binauli
6-04-2023	“ Faslotpadan me mosam purvanuman ka mehatv”	Masuri, Baghpat
12-04-2023	Farmers meet with Sikheda farmers	Baraut
24-04-2023	“ Krishi me Mausam Purvanuman ka mehatv”	Mavikla, Khekra
27-04-2023	Farmers meet with Baghpat farmers	Pilana
06-05-2023	Farmer Awareness Programme on “Meghdoot App”	Chhaprauli
11-05-2023	Farmers meet with Sakrod village farmers	Binauli
17-05-2023	Farmer Awareness Programme on “Damini App”	Baghpat
21-05-2023	Farmer Awareness Programme on “Kharif faslon me Mausam purvanuman ka Mehatv”	Baraut
25-5-2023	Farmers meet with katha farmers	Sankrod, Khekra
01-06-2023	Farmers meet with pali farmers	Pilana
5-6-2023	Farmer Awareness Programme on “ Meghdoot App	Chhaprauli
16-06-2023	Kharif Faslon me mausam anurup krishi	Binauli
6-07-2023	Mausam anurup Krishi	Baghpat
10-07-2023	Mausam App	Baraut
06-8-2023	Umang App	Khekra
21-08-2023	Online Farmer meet	Pilana
14-9-2023	Sarson pr mausam ka prabhav avam bachav	Chhaprauli
21-09-2023	Rabi faslon me mausam anurup krishi	Binauli
29-09-2023	Online farmer meet	Baghpat
5-10-2023	Umang App	Baraut
12-10-2023	Mausam App	Khekra
26-10-2023	Rabi Faslon me mausam purvanuman ka mehatv	Baghpat
06-11-2023	Faslotpadan me mausam purvanuman ka mehatv	Pilana
14-12-2023	Rabi faslon me mausam anurup krishi	Katha, khekra

\*Every Tuesday and Friday Agro advisory uploaded and disseminate to farmers.



## **Centre of Excellence on Sugarcane**

### **Action Plan 2023**

1. To train 300 farmers (50 farmers from each block) of the district in seed production through single bud nursery (February to July, 2023).
2. To prepare a single bud nursery in the month of September of CoS 13235 (10 q), CoLk 14201 (10 q) and Co 1502 (10 q) and sell about 18000 sugarcane saplings to the farmers after 25 to 30 days at an estimated rate of Rs. 3/plant. .
3. To prepare single bud nursery in the month of September for CoS 13235 (3 q), CoLk 14201 (3 q) and Co 1502 (3 q) and sow it in October on 1.5 acre area of the centre.
4. For the spring season (February-March), prepare 36000 saplings of all three varieties from 60 q seeds and sell them at the estimated rate of Rs. 3/plant.
5. To create 12 employable groups (sugarcane nursery) in the district.
6. To make 05 sugarcane grower group of the district efficient by making exportable organic sugarcane products like jaggery, sugar, vinegar etc.



# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA NAGINA, BIJNOR**

# ACTION PLAN OF KVKs During 2023

(1<sup>st</sup> January 2023 to 31<sup>st</sup> December 2023)

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		Email	Website
	Office	FAX		
Krishi Vigyan Kendra, Nagina, District-Bijnor, Pin - 246762 (U.P.)	01343- 250489	01343- 250489	bijnorkvk@gmail.com	http://bijnour.kvk4.in/

### 1.2 a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		Email	Website
	Office	FAX		
Sardar Vallabhbhai Patel Univ. of Agric. & Tech., Meerut - 250 110 (U.P.)	0121- 2888511	0121- 2888511, 2888505	deesvpuat2014@gmail.com	www.svbpm Meerut.ac.in

1.2 b. Status of KVK website : Yes

1.2 c. No. of Visitors (Hits) to your KVK website : 350

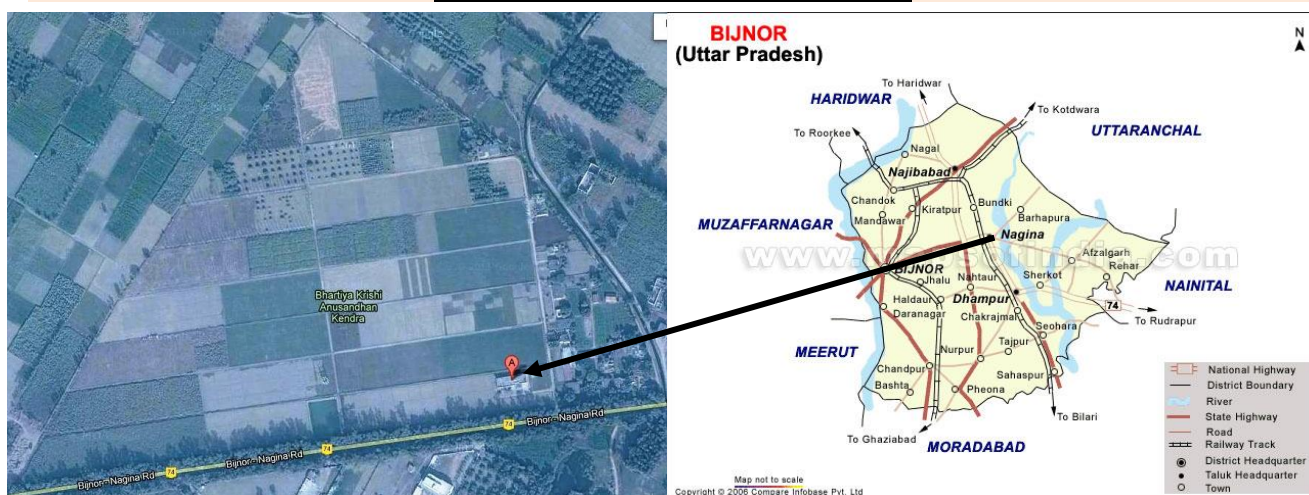
1.2 d. Status of ICT lab at your KVK : No

### 1.3. Name of the Sr. Scientist & Head with phone, mobile no. and e-mail






Name	Telephone / Contact		
	Office	Mobile	Email
Dr. D.P. Singh	01343-250489	09720974900	dpsingh0107@gmail.com







1.4. Year of sanction : FN5 (108)/90 KVK date 22.04.92  
FN0. 15(22)/92 Agr. Ext. -1/do Jan. 93

## Map of KVK & district – Bijnor



### 1.5. Staff Position (as on 01<sup>th</sup> Sepetmber, 2022)

S. N.	Sanctioned Post	Name of the incumbent	Designation	Discipline	Pay Scale	Grade Pay	Present Basic (Rs.)	Date of Joining	Permanent / Temporary	Category	Mobile No.	Email ID	Photograph
1.	SMS	Dr. Shakuntala Gupta	SMS/Asstt. Prof.	Home Science	37400-67000	9,000	1,61,600	09.12.03	Permanent	OBC	9412356736	shakuntalaguptakvk@gmail.com	
2.	SMS	Dr. K. K. Singh	SMS/Asstt. Prof.	Plant Breeding	15600-39100	8,000	1,01,100	10.07.08	Permanent	Gen.	8630602518	krishna.singh1976@gmail.com	
3.	SMS	Dr. Pratima Gupta	SMS	Horticulture	15600-39100	5,400	56,100	01.07.22	Permanent	Gen.	9389727659	gpratima41@gmail.com	
4.	SMS	Dr. Shivangi	SMS	Agronomy	15600-39100	5,400	56,100	01.07.22	Permanent	Gen.	9455005082	singhshivangi.agri@gmail.com	
5.	SMS	Dr. Pintoo Kumar	SMS	Plant Protection	15600-39100	5,400	56,100	01.07.22	Permanent	Gen.	9628289157	kumarpintoo06@gmail.com	

6.	Prog. Asstt.	Er. S.K. Yadav	Prog. Asstt.	Computer Science	9300-34800	4,800	78,800	21.10.99	Permanent	OBC	9412117844	shailendrayadav31@gmail.com	
7.	Prog. Asstt./ Farm Manger	Dr. Bhupendra Kumar	Farm Manger	Plant Breeding	9300-34800	4,600	55,200	03.09.08	Permanent	SC	9368651430	bkdheeraniya75@gmail.com	
8.	Assistant	Sh. Sevaram Arya	OS/ Accountant	--	9300-34800	4,600	72,100	09.09.00	Permanent	OBC	9457046522	--	
9.	Jr. Steno	Mr. Abdul Gaffar	Jr. Steno	--	9300-34800	4,200	64,100	29.08.95	Permanent	Gen.	9412452148	--	
10.	Driver	Mr. Anil Kumar	Driver	--	5200-20200	2,400	33,300	30.07.07	Permanent	SC	9359218476	--	
11.	Attendant	Mr. Satish Chandra Maurya	Attendant	--	5200-20200	2,400	38,600	01.07.98	Permanent	OBC	9410860550	--	

**1.6. Total land with KVK (in ha) : 13.347 ha**

SN	Item	Area (ha)
1	Under Buildings	0.40
2	Under Demonstration Units	1.70
3	Under Crops	9.80
4	Orchard/Agro-Forestry/Horticulture	1.20
5	Pond	0.247
<b>Total</b>		<b>13.347</b>

**1.7. Infrastructural Development :**

**(A) Buildings**

SN	Name of building	Source of funding	Stage						Required New	Needs renovation
			Complete			Incomplete				
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction		
1	Administrative Building	ICAR	1999	550	--	--	--	--	--	
2	Farmers Hostel	ICAR	2006	300	--	--	--	--	Repairing & white washing	
3	Staff Quarters (6)	ICAR	--	400	--	Nov., 06	--	Completed	Repairing & white washing	
4	Demonstration Units (2)	ICAR	--	160	--	Nov., 06	--	Completed	Repairing & white washing	
5	Fencing/ Boundary wall	ICAR	--	500 rm	--	Feb., 07	--	Completed	New required	
6	Threshing floor	ICAR	Completed	300	--	Nov., 06	--	Completed	--	
7	Farm godown	ICAR	--	60	--	June, 06	--	Completed	--	
8	Irrigation Channel	ICAR	--	1000 rm	--	May, 07	--	Completed	Repairing	
9	Seed Store	UPCAR	March 2022	--	--	--	--	--	--	
10	Vermi Compost	UPCAR	March 2022	--	--	--	--	--	--	

**(B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	Required replacement
Jeep	2009	600000.00	--	Good	--
Motor Cycle	2010	46500.00	--	Good	--
Tractor	1995	--	--	Poor	New Required

**(C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status	Required replacement
Diesel engine pump set	1995	--	Poorly working	
Zero till ferti seed drill	1998	11,255.00	Poorly working	New Required
	1999	11,300.00	Working	
	2010	19,500.00	Working	
Cultivator	1995	6,000.00	Poorly working	New Required
Disc harrow	1995	4,700.00	Poorly working	New Required
	2008	22,000.00	Working	
Bund maker	1995	3,400.00	Working	
Labeller	1995	47,500.00	Working	
Tractor trolley	1995	46,000.00	Poorly working	New Required
Sugarcane cutter planter	2000	--	Poorly working	
Bed Planter	2010	57,500.00	Working	New Required
Thresher	1995	17,000.00	Poorly working	--
Computer	2003	--	Poorly working	New Required
LCD	2007	--	Working	--
ERNET setup (05 Computer, 01 Server & 01 VSAT)	2009	--	Not Working	--

**1.8. A). Detail of SAC meeting conducted in the year :**

**Date: 18.01.2022**

Name and Designation	Salient Recommendations	Action taken
Dr. P K Singh, Director, Extension, SVPUA&T, Meerut	High yielding and disease resistant sugarcane varieties should be more popularize by KVK scientist.	03 training programme of Varietal diversification in sugarcane including 01 OFT (05 farmers) & 01 FLD (10 farmers) programme are conducted during the year 2021-22 & also planned such programme next upcoming year 2023.
	Suggested promoting Newly released bio-fortified varieties of crops district.	10 training programme on production technology of biofortified crops including 02 OFT (20 farmers) & 05 FLD (124 farmers) programme are conducted during the year 2021-22 & also planned such programme next upcoming year 2023.
	Suggested for compilation of impact assessment of conducted technology.	KVK Scientist compiled the 04 case study, 04 success stories and 03 entrepreneurs after impact assessment of technology during 2021-22.
	Suggested for more emphasize on Transfer of new technologies among farming community.	KVK Scientist included Such programme in Action plan.
Dr. Hariom Katiyar	KVK scientists should be produce Vegetable seedlings for farmers.	Such programme included in KVK Action plan.
	Suggested for promoting newly varieties in district for better adaption and yield performance.	KVK scientists conducting FLD & OFT programme only newly released varieties.
	Suggested for adoption of new villages for promotion of technology.	05 new village adopted by KVK scientists for transfer of new technologies.
District Agriculture Officer, Bijnor	Suggested for displaying new Agro-technique like Zero Tillage, wheat sowing through happy seeder.	KVK Scientist Displayed such technique with varietal assessment.
District Horticulture Officer, Bijnor	District Agriculture Officer, Bijnor say requirement of Horticulture Scientist.	Horticulture Scientist recruited at KVK, Bijnor.
Sh. Sharad Kumar	Suggested inclusion of ICM technology in major crops.	Such programme has been plant during upcoming year.

## **2. DETAILS OF DISTRICT**

### **2.1 Major farming systems/enterprises**

<b>SN</b>	<b>Farming system/Enterprise</b>
1	Integrated agriculture farming systems
2	Integrated crop-livestock-fish farming systems
3	Dairy farming systems
4	Agro-forestry systems
5	Agri-Horticulture farming systems

### **2.2 Description of Agro-climatic Zone & major agro ecological situations**

#### **a) Soil type**

<b>SN</b>	<b>Agro-climatic Zone</b>	<b>Characteristics</b>
1	Mid Western Plain Zone	<ul style="list-style-type: none"> <li>• The soils are coarse to medium in texture, moderately well drained, consistently deep and neutral to slightly alkaline in nature</li> <li>• Climate of the zone in general is subtropical type</li> <li>• The maximum temperature of the district was 41<sup>o</sup>C while minimum was found to be 0.6<sup>o</sup>C</li> <li>• Total rain fall of the district is 898.5 mm</li> <li>• The fertilizer consumption of the area is 143 kg/ha 83% farmers are having less than 2 ha land, 8% farmers are having 2-4 ha land, while the rest 9% have more than 4 ha land</li> <li>• The crops of the zone are sugarcane, rice, wheat, mustard, groundnut, field pea, gram, fodder sorghum etc.</li> </ul>
2	Tarai & Bhabar Zone	<ul style="list-style-type: none"> <li>• A part of the district falls under this zone</li> <li>• The highest temperature is recorded in May, June and the lowest in Dec., Jan.</li> <li>• The average rainfall is 1400 mm. Eighty three percent of rains are received from south- west monsoon from June to September</li> <li>• The soils are low to medium in available phosphorus, medium to high in organic carbon</li> </ul>

#### **b) Topography**

The Topography of Bijnor district is mainly a plain. The district has a pleasing climate with cool and foggy winter and generally hot and humid summer. The wet session starts from July to October during which the district receives rainfall. The temperature of the district is varies from 48<sup>o</sup>C in summer and 3<sup>o</sup>C in winter. These districts have the highest density of population which gives the lowest per capita land. The other two regions, the central and the western are comparatively better with a well-developed irrigation system.

<b>SN</b>	<b>Agro ecological Situation</b>	<b>Characteristics</b>
1	AES-1	Irrigated Sandy Loam, Loam (Sugarcane predominant)
2	AES-2	Irrigated Loam, Clay Loam soils

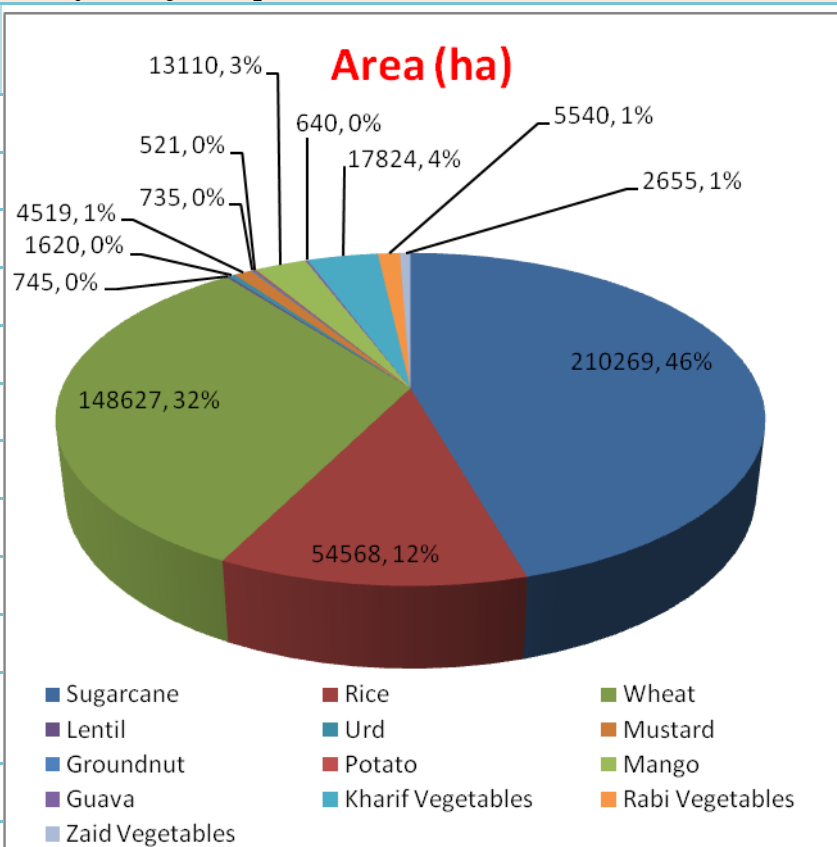


### 2.3 Soil type/s

SN	Soil type	Characteristics	Area in ha
1	Clay loam	Fine-grained <b>minerals</b> , organic matter medium, variable range of <b>water content</b> , clay minerals.	179652
2	Sandy loam	Fertile soil with rich nutrient, organic matter medium to high suitable for all arable crops.	172428
3	Sandy	Low organic matter content, high porosity, contains large particles, usually light in color. stay loose and allow moisture to penetrate easily.	84272

### 2.4 Area, Production and Productivity of major crops cultivated in the district

Crop	Area (ha)	Productivity (q./ha)
Sugarcane	210269	859.52
Rice	54568	26.37
Wheat	148627	36.20
Lentil	745	8.11
Urd	1620	13.93
Mustard	4519	14.11
Groundnut	735	12.42
Potato	521	273.41
Mango	13110	114.00
Guava	640	266.00
<b>Vegetables</b>		
a) Kharif	17824	--
b) Rabi	5540	--
c) Zaid	2655	--



### 2.5. Weather data

Month	Rainfall (mm)	Rainy Days (Days)	Temperature ° C		Relative Humidity (%)	
			Maximum	Minimum	0716	1416
January, 22	146.80	11	16.7	7.9	95	68
February, 22	9.20	02	22.4	7.5	84	61
March, 22	0.00	--	31.9	14.4	94	42
April, 22	1.00	01	37.0	17.4	79	30
May, 22	55.00	03	34.0	24.9	80	50
June, 22	116.20	06	36.0	24.5	84	54

July, 22	127.00	09	33.1	25.6	88	73
August, 22	79.00	05	32.5	25.6	91	68
September, 22	--	--	--	--	--	--
October, 22	--	--	--	--	--	--
November, 22	--	--	--	--	--	--
December, 22	--	--	--	--	--	--

### 3.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production (LMT)	Productivity (kg/day/animal)
<b>Cattle</b>			
<i>Crossbred</i>	41490	--	3.0
<i>Indigenous</i>	223258	--	1.5
<b>Buffalo</b>	526188	127.56	4.3
<b>Cow</b>	223258	33.52	2.5
<b>Sheep</b>			
<i>Crossbred</i>	8286	--	--
<i>Indigenous</i>	5599	--	--
<b>Goats</b>	104429	10.93	0.729
<b>Pigs</b>			
<i>Crossbred</i>	5427	--	--
<i>Indigenous</i>	24938	--	--
<b>Rabbits</b>	495	--	--
<b>Poultry</b>	152327	--	--

Category	Area	Production (qt.)	Productivity (qt./ha)
Fish	1306.60 ha	45404.35	34.75

## 2.7 Details of Operational Area /Villages

SN	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Nagina	Kotwali	Harvanshpur Dhaaram, Khanpur, Saidkheri, Rajpura, Purani, Nejawali Gamdi, Fulsandha Karandachodher, Patpura, Kalakheri , Harganpur, and Vishoniwala etc.	Sugarcane, Rice, Wheat, French bean, Okra, Mustard, Groundnut, Urd, Moong, Mango and Guava	<ul style="list-style-type: none"> <li>• Insect &amp; Diseases</li> <li>• Old variety seed</li> <li>• Excessive and Imbalanced use of pesticides &amp; fertilizers</li> <li>• No seed treatment,</li> <li>• Poor Management of orchards</li> <li>• No application of micronutrients</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction and Popularization of HYV</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Popularization of intercropping</li> <li>• Promotion of self help group of farmers</li> <li>• Encouragement of Oilseed and Pulses</li> <li>• Rejuvenation of old orchards</li> </ul>
2	Dhampur	Allahapur (Dhampur)	Nayagoan and Norangabad	Sugarcane, Rice Wheat, Mustard, Vegetables	<ul style="list-style-type: none"> <li>• Insect &amp; Diseases attack</li> <li>• Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>• No seed treatment</li> <li>• Reliability of the farmers on chemicals</li> </ul>	<ul style="list-style-type: none"> <li>• Discriminative use of pesticides</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Improving technological skills of fruits farmers</li> <li>• Promotion of self help group of farmers</li> </ul>
3	Najibabad	Najibabad	Jattiwalla and Raipur	Vegetable, Fruits, Rice, Wheat and Sugarcane	<ul style="list-style-type: none"> <li>• Unavailability of quality seed of vegetable</li> <li>• Insect &amp; Diseases attack</li> <li>• No seed treatment</li> <li>• Poor management of orchards</li> <li>• No application of micronutrients</li> </ul>	<ul style="list-style-type: none"> <li>• Promotion of suitable and HYV of vegetables</li> <li>• Discriminative use of pesticides</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Improving technological skills of fruits farmers</li> <li>• Promotion of self help group of farmers</li> </ul>
4	Nehtor	Nehtaur	Kokapur, Begrajpur and Sarayaashnra etc.	Sugarcane, Rice Wheat, Mustard, Vegetables	<ul style="list-style-type: none"> <li>• Insect &amp; Diseases attack</li> <li>• Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>• No seed treatment</li> <li>• Reliability of the farmers on chemicals</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction and Popularization of HYV</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Popularization of intercropping</li> <li>• Promotion of self help group of farmers</li> <li>• Encouragement of Oilseed and Pulses</li> <li>• Rejuvenation of old orchards</li> </ul>
5	Najibabad	Kiratpur	Akbrabad , Bhojpur, Gadhiwan, Aurangpur Fatta, Jalpur and Sadipur	Vegetable, Fruits, Rice, Wheat and Sugarcane	<ul style="list-style-type: none"> <li>• Unavailability of quality seed of vegetable</li> <li>• Insect &amp; Diseases attack</li> <li>• Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>• No seed treatment</li> <li>• Poor management of orchards</li> <li>• No application of micronutrients</li> </ul>	<ul style="list-style-type: none"> <li>• Promotion of suitable and HYV of vegetables</li> <li>• Adequate package and practices of vegetables and fruits</li> <li>• Discriminative use of pesticides</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Improving technological skills of fruits farmers</li> <li>• Promotion of self help group of farmers</li> </ul>

6	Dhamapur	Seohara	Jamapur, Sultanpur, Bagwada, Jat Nagla and Budhanpur	Rice, Wheat, Sugarcane and orchard	<ul style="list-style-type: none"> <li>• Delayed sowing of sugarcane and wheat</li> <li>• Improper management of pests</li> <li>• Sowing of old varieties seeds</li> <li>• Imbalanced use of pesticides &amp; fertilizers</li> <li>• Poor management of orchards</li> <li>• No application of micronutrients</li> </ul>	<ul style="list-style-type: none"> <li>• Promotion of suitable &amp; HYV of vegetables</li> <li>• Adequate package and practices of fruits</li> <li>• Discriminative use of pesticides</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Improving technological skills of sugarcane and rice farmers</li> <li>• Promotion of self help group of farmers</li> </ul>
7	Dhamapur	Afjalgarh	Jamanwala and Muraliwala	Sugarcane, Rice, Wheat, Mustard, Groundnut, Urd, Moong, Mango and Guava	<ul style="list-style-type: none"> <li>• Insect &amp; Diseases</li> <li>• Old variety seed</li> <li>• Excessive and Imbalanced use of pesticides &amp; fertilizers</li> <li>• No seed treatment,</li> <li>• Poor Management of orchards</li> <li>• No application of micronutrients</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction and Popularization of HYV</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Popularization of intercropping</li> <li>• Promotion of self help group of farmers</li> <li>• Encouragement of Oilseed and Pulses</li> <li>• Rejuvenation of old orchards</li> </ul>
8	<b>Chandpur</b>	<b>Jalilpur</b>	Bhwanipur and Laddupura	Sugarcane, Rice Wheat, Mustard, Vegetables	<ul style="list-style-type: none"> <li>• Insect &amp; Diseases attack</li> <li>• Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>• No seed treatment</li> <li>• Reliability of the farmers on chemicals</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction and Popularization of HYV</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Popularization of intercropping</li> <li>• Promotion of self help group of farmers</li> <li>• Encouragement of Oilseed and Pulses</li> <li>• Rejuvenation of old orchards</li> </ul>
9	<b>Chandpur</b>	<b>Noorpur</b>	Athai Aheer, Sidiawali, Faijpur	Sugarcane, Rice Wheat, Mustard, Vegetables	<ul style="list-style-type: none"> <li>• Insect &amp; Diseases attack</li> <li>• Excessive and imbalanced use of pesticides &amp; fertilizers</li> <li>• No seed treatment</li> <li>• Reliability of the farmers on chemicals</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction and Popularization of HYV</li> <li>• Promotion of IPNM, IPM, IDM, ICM</li> <li>• Popularization of intercropping</li> <li>• Promotion of self help group of farmers</li> <li>• Encouragement of Oilseed and Pulses</li> <li>• Rejuvenation of old orchards</li> </ul>

#### Adopted 02 villages for Doubling Income of Farmers, NARI & VATICA programme

Name of the KVK	Name of Villages	Block & Tehsil of Village	Total Population of Village	No of Farmer Family in the Village	Distance of Village from KVK	Distance between both Villages
Bijnor (U.P.)	Athai Aheer	Block- Noorpur, Tehsil- Chandpur	5,000	125	11 Km	10
	Haijarpur	Block- Kotwali, Tehsil- Nagina	5,650	132	9 Km	10
	Bhoorapur	Block- Kotwali, Tehsil- Nagina	4500	105	8 Km	10

### Detail Information of 02 Villages adapted by KVK

SN	Particular	Detail information in r/o Village1			Detail information in r/o Village2		
1	Name of KVK	<b>Bijnor</b>			<b>Bijnor</b>		
2	Name of villages to be adopted by KVK	Athai Aheer			Haijarpur		
3	Number of farmers to be targeted	30			25		
4	Area of agriculture land (ha)	280 ha			320 ha		
5	Area of irrigated land (ha)	100%			100%		
6	Number of water body	12			02		
7	Area of water body (ha)	40 ha			34 ha		
8	Number of different livestock animals	500			380		
9	Soil status	Loam Soil			Loam Soil		
10	Average nutrients (nitrogen, phosphorous, potash, etc) used	Urea-1500 bag, DAP-5000 bag, MOP-250 bag, NPK 150 bag.			Urea-700 bag, DAP-400 bag, MOP-150 bag, NPK 160 bag.		
11	Major diseases occurred in crops	<b>Crop</b>	<b>Disease</b>	<b>Insects</b>	<b>Crop</b>	<b>Disease</b>	<b>Insects</b>
		Sugarcane	Red rot, Wilt, Poccha Boeing	Top borer, Shoot borer, Termite	Sugarcane	Red rot, Wilt, Poccha Boeing	Top borer, Shoot borer, Termite
		Rice	Blast, Sheath blight, Fals Smut, BLB	Stem borer, BPH, Leaf folder, Gundhi bug	Rice	Blast, Sheath blight, Fals Smut, BLB	Stem borer, BPH, Leaf folder, Gundhi bug
		Wheat	Leaf blight, Rust, Powdery mildew	Termite, Aphid	Wheat	Leaf blight, Rust, Powdery mildew	Termite, Aphid
		Mustard	Powdery mildew, Rust	Aara makhi	Mustard	Powdery mildew, Rust	Aara makhi
		Urd	YMV	Pod borer	Urd	YMV	Pod borer
12	Major diseases occurred in livestock	FMD			FMD		
13	Post-harvest management/ value addition followed, if any	Non			Non		
14	Marketing channels of products	Sugar industry and Open market			Sugar industry and Open market		
15	Agro-based industries, if any	Non			Non		
16	Average income of the farmer	40000/ year net income			48000/ year net income		
17	Average yield of livestock	5.00 Lit./day			4.00 Lit./day		
18	Average yield of fisheries	<b>03 ponds</b>			<b>02 ponds</b>		

19	Average yield of different crops cultivated in the both Villages	<b>Name of Crop</b>	<b>Yield of Crop in q/ha</b>	<b>Name of Crop</b>	<b>Yield of Crop in q/ha</b>
		Sugarcane	640	Sugarcane	550
		Paddy	37	Paddy	35
		Wheat	28.5	Wheat	28.0
		Mustard	6.0	Mustard	6.0
		Lentil	3.5	Lentil	3.0
		Urd	6.0	Urd	5.5
		Vegetables	--	Vegetables	--
20	Possibility of involvement of ICAR Institutes:	<b>Name of the Institute</b>	<b>Likely Helps to be Taken</b>	<b>Name of the Institute</b>	<b>Likely Helps to be Taken</b>
		IARI, IWBR and IISR	Demonstrations	IARI, IWBR and IISR	Demonstrations
21	Possibility of involving private sectors for CSR funds (TCS, WIPRO, Reliance Industries, Bill & Millinda Gates Foundation, Dhanuka Group, Surya Foundation, Mahindra & Mahindra, etc.):	<b>Name of Private Sector</b>	<b>Likely Helps to be Taken</b>	<b>Name of Private Sector</b>	<b>Likely Helps to be Taken</b>
		Dhanuka Group	Seminar, Demo.	Dhanuka Group	Seminar, Demo.
		BYRE	Seminar, Demo.	BYRE	Seminar, Demo.
		IPL	Seminar, Demo.	IPL	Seminar, Demo.
		IFFCO	Seminar, Demo.	IFFCO	Seminar, Demo.
22	Name of other partners to be involved (State Deptt./ Central govt. Deptt./ PSU/ NGO/ Private org.):	<b>Name of the Departments</b>	<b>Likely Helps to be Taken</b>	<b>Name of the Departments</b>	<b>Likely Helps to be Taken</b>
		District Agriculture Department	Training, Gosthi, Demonstrations	District Agriculture Department	Training, Gosthi, Demonstrations
		District Horticulture Department	Training, Gosthi, Demonstrations	District Horticulture Department	Training, Gosthi, Demonstrations
		District Animal Husbandry Department	Training, Gosthi, Demonstrations	District Animal Husbandry Department	Training, Gosthi, Demonstrations
		District Sugarcane Department	Training, Gosthi, Demonstrations	District Sugarcane Department	Training, Gosthi, Demonstrations
23	FPO formed or not? (YES/NO)	Non		Non	
24	Major interventions planned for Villages	<b>List of Interventions</b>		<b>List of Interventions</b>	
		<ul style="list-style-type: none"> <li>➤ Skill Training about farming</li> <li>➤ Technological Demonstrations</li> <li>➤ Field days</li> </ul>		<ul style="list-style-type: none"> <li>➤ Skill Training about farming</li> <li>➤ Technological Demonstrations</li> <li>➤ Field days</li> </ul>	

**Action Plan and Budget requirement for the Adopted villages for DFI, NARI, VATICA, Swachhta Mission & Poshan Programmes**

	Activities planned	Expected Outcome	Budget		
			2022-23	2023-24	2024-25
<b>Action Plan (including interventions made) &amp; Budget requirement:</b>	<ul style="list-style-type: none"> <li>➤ Promotion of intercropping</li> <li>➤ Promotion of Newly High yielding varieties of crops.</li> <li>➤ Promotion of Value addition at household's level.</li> <li>➤ Promotion of IWM, IPM &amp; IPNM techniques.</li> <li>➤ Promotion of quality seed production at farmer's field.</li> <li>➤ Promotion of organic farming.</li> <li>➤ Promotion of Export quality Basmati Rice</li> <li>➤ Promotion of Bio fortified varieties of crops</li> <li>➤ Efficient resource management through precision farming.</li> <li>➤ Entrepreneurship development through capacity building programme.</li> <li>➤ Promotion of crop diversification</li> <li>➤ Awareness programme about Swachhta, Cleaning &amp; establishment of units of waste management at farmers filed</li> </ul> <p><b>Programme to be conducted</b></p> <ul style="list-style-type: none"> <li>➤ Technological Demonstrations.</li> <li>➤ Field days.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Production and productivity will be increased.</li> <li>➤ Extra income and nutritive food availability will be increased</li> <li>➤ Farmer's income may be increase up double to triple.</li> <li>➤ Unemployed youths may be engaged at village level through rural entrepreneur development.</li> </ul>	2.0 lac	2.0 lac	2.0 lac
			<b>Grand Total</b>	<b>2.0 lac</b>	<b>2.0 lac</b>

## 2.8 Priority/Thrust Areas

Crop/Enterprise	Thrust area
Sugarcane	<ul style="list-style-type: none"> <li>• Popularizing IPM technologies for management of insect pests.</li> <li>• Popularizing new agro techniques in sugarcane for farmers doubling income.</li> <li>• Promoting quality seed production at farmer's field.</li> </ul>
Paddy	<ul style="list-style-type: none"> <li>• Popularizing IPM technologies for management of insect pests.</li> <li>• Popularizing new agro techniques in Rice for farmers doubling income.</li> <li>• Promoting quality seed production at farmer's field.</li> <li>• Promoting export quality Basmati production.</li> </ul>
Wheat	<ul style="list-style-type: none"> <li>• Popularizing IPM technologies for management of insect pests.</li> <li>• Popularizing new agro techniques in Wheat for farmers doubling income.</li> <li>• Promoting quality seed production at farmer's field.</li> </ul>
Lentil	<ul style="list-style-type: none"> <li>• Popularizing IPM technologies for management of insect pests.</li> <li>• Popularizing new agro techniques in Lentil for farmers doubling income.</li> <li>• Promoting quality seed production at farmer's field.</li> </ul>
Mustard	<ul style="list-style-type: none"> <li>• Popularizing IPM technologies for management of insect pests.</li> <li>• Popularizing new agro techniques in Mustard for farmers doubling income.</li> <li>• Promoting quality seed production at farmer's field.</li> </ul>
Black Gram	<ul style="list-style-type: none"> <li>• Popularizing IPM technologies for management of insect pests.</li> <li>• Popularizing new agro techniques in Black gram for farmers doubling income.</li> <li>• Promoting quality seed production at farmer's field.</li> </ul>
Fruit and Vegetable	<ul style="list-style-type: none"> <li>• Popularizing IPM technologies for management of insect pests.</li> <li>• Popularizing new agro techniques in Fruit and Vegetable for farmers doubling income.</li> </ul>
Women empowerment	<ul style="list-style-type: none"> <li>• Women empowerment through popularization of food preservation technique, NARI &amp; VATICA progrmme.</li> </ul>
Others	<ul style="list-style-type: none"> <li>• Maintenance of soil productivity through IPNM.</li> <li>• Promoting resource conservation techniques in crops.</li> <li>• Promoting Group Approach of Extension through FIG, FPOs.</li> <li>• Diversification in Technologies.</li> </ul>



### 3. TECHNICAL PROGRAMME

#### A. Details of targeted mandatory activities by KVK

OFT		CFLD		FLD	
Number of OFTs	Number of Farmers	Area (ha)	No. of Farmers	Area (ha)	No. of Farmers
14	75	120.00	300	84.65	440

Training			Extension Activities	
Training Programme	Number of Courses	Number of Participants	Number of activities	Number of participants
PF	92	1840	954	22460
RY	14	140		
EF	32	320		
<b>Total</b>	<b>138</b>	<b>2300</b>		

Seed Production (Qt.)	Planting Material Production (Nos.)	Fish Seed Prod. (Nos)	Soil Samples Analyzed (Nos)	Development of Soil Health Cards (Nos.)
400	20000	--	2000	--

Quality Seed Distributed (q)	No. of Saplings Distributed (Nos.)	No. of Fingerlings Distributed (Nos)	No. of Livestock & Poultry Strains Distributed (Nos)
--	20000	--	--

#### Technology to be Demonstrated and disseminated through Technology Park

Crop	Technology /Variety
Wheat	HD-3226, DBW-187, DBW-222, DBW-303, WB-02, HPBW-01, C-306, DBW-88, HD-3086, HD-2967, PBW-723, WH-1105, HD-3271, HI-1621, PBW-752, DBW-173, PBW-757, WH-1124, , DBW-71, DBW-90, HD-3059
	Isoproturan 75 WP @ 1.5 kg/ha, Sulfosulfuran 75% + Metsulfuron 5% @ 40 gm/ha, Mesosulfuranmethyal 3% + Idosulfuranmethyal 0.6% at 400 gm/ha and Clodinofof 15% WP + Metsulfuron 20% @ 40 gm/ha
	Use of NPK liquid bio-fertilizer, foliar spray of NPK 18::18:18
Paddy	Pusa Basmati-1718, Pusa Basmati-1637, Pusa Basmati-1728, Pusa Basmati-1401, Pusa Basmati-1460, , Pusa Basmati-1509, Pusa Basmati-1121, Pusa Basmati-01, Pusa Basmati-2511, Nagina-22, Nagina-10, Vallabh Basmati-21, Vallabh Basmati-22, NDR-359, NDR-3112, PR-126, PR-123, PD-24, CR-44, DRH-775, DRH-2366, PAC-801, PAC-837, Arize-6444, Arize 6444 Gold, Sava-127.

	<p>Weedicides: Bispyribac sodium 10% SC 250 ml/ha, Pretilachlor 50% EC 2.0 lit/ha and Oxadiagrif 80% W.P 112.5gm/ha.</p> <p>Use of NPK liquid bio-fertilizer, foliar spray of NPK 18::18:18</p> <p>Production of Basmati rice through use of organic techniques.</p>
Mustard	Pusa Mustard-31, Pusa Mustard-32, Pusa Mustard-30, NRCHB-101, NRCHB-506, NRCDR-2, Pusa Mustard-25, Pusa Mustard-26, Pusa Mustard-27, , PusaTarak, Pusa Jaikisan, Pusa Bold
Lentil	<p>Pusa Masoor Ageti, Pl-8</p> <p>Use of Pendamethelin 1.0 kg ai / ha followed by Emazathyper weedicides 100 gm ai /ha at 15-25 days after sowing.</p>
Potato	Kufari Mohan, Kufari Frysona, Kufari Neelkanth, Kufari Chipsona-3
Mustard + Lentil	Intercropping
Brinjal	Pusa Navkiran, Pant Samrat, Pant Rituraj, Kashi Sandesh
Chilli	KA-2, Soljar
Onion	NHRDF Red-2, Agrfound Light Red, L-8, Agrifound White, N-53, Saharanpur Local
Cucumber	Supar-786, Sardar-108, BSS-949, No.786, NUN-1001
Poplar	Varietal (21 varieties)
Tomato	Kashi Vishes, Hisar Lalit, Hisar Arun, Azad T-2

**B. Abstract of interventions to be undertaken**

SN	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Yield enhancement, employment generation & Nutritional security	Sugarcane	Low income in sugarcane	<ul style="list-style-type: none"> <li>Suitable intercrops in sugarcane</li> <li>Varietal evaluation</li> <li>Evolution of insecticides</li> </ul>	<ul style="list-style-type: none"> <li>Nutrient management in Sugarcane</li> <li>To demonstrate the effect of nursery plantation under late sown condition on sugarcane yield</li> <li>To demonstrate the yield potential of sugarcane variety</li> </ul>	<ul style="list-style-type: none"> <li>Diversification in autumn sugarcane</li> <li>Varietal diversification and quality seed production of sugarcane-02</li> </ul>	<ul style="list-style-type: none"> <li>Varietal diversification and quality seed production of Sugarcane-02</li> </ul>	Field day, Kisan Gosthi, Electronic and Print media	Fertilizers, technology & seeds
2	Yield and income security	Paddy	Low yield due to heavy infestation of disease and insect	<ul style="list-style-type: none"> <li>Evolution of insecticides</li> </ul>	<ul style="list-style-type: none"> <li>Disease and insect control in paddy</li> </ul>	<ul style="list-style-type: none"> <li>Nursery management in rice</li> <li>Weed management in rice</li> <li>Use of bio fertilizer</li> </ul>	<ul style="list-style-type: none"> <li>Nursery management of paddy</li> </ul>	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Chemicals
			Unavailability of improved seed	<ul style="list-style-type: none"> <li>Varietal evaluation</li> </ul>	<ul style="list-style-type: none"> <li>To demonstrate the yield potential of basati rice variety</li> </ul>	<ul style="list-style-type: none"> <li>Varietal diversification in paddy crop</li> <li>Quality seed production of paddy</li> </ul>	<ul style="list-style-type: none"> <li>Varietal diversification in paddy crops</li> <li>Quality seed diversification of paddy</li> </ul>	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Seed
3	Yield and income security	Wheat	Low yield & Low income	<ul style="list-style-type: none"> <li>ICM</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration of fungicide &amp; growth promoter</li> </ul>	<ul style="list-style-type: none"> <li>Scientific cultivation of wheat</li> </ul>	<ul style="list-style-type: none"> <li>Production techniques of late sown wheat</li> </ul>	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Chemicals
			Unavailability of improved seed	<ul style="list-style-type: none"> <li>Evaluation of HY and diseases resistant varieties of timely sown wheat</li> <li>Evaluation of HY and diseases resistant varieties of late sown wheat</li> </ul>	<ul style="list-style-type: none"> <li>To demon. the yield potential of Bio fortified Wheat variety</li> <li>To demonstrate the yield potential of high yielding timely sown wheat</li> <li>To demonstrate the yield potential of late sown wheat</li> </ul>	<ul style="list-style-type: none"> <li>Quality seed production</li> <li>Varietal diversification in wheat crop</li> <li>Production technology of Bio fortified Wheat variety</li> </ul>	<ul style="list-style-type: none"> <li>Production technology of Bio fortified Wheat variety</li> <li>Varietal diversification in wheat crop</li> </ul>		Seeds
4	Yield enhancement, for Nutritional security	Mustard	Low Yield	--	<ul style="list-style-type: none"> <li>Integrated crop management in mustard</li> <li>To demon. the yield potential of Mustard varieties</li> </ul>	<ul style="list-style-type: none"> <li>Varietal diversification and quality seed production of mustard</li> <li>Production technology of Bio fortified mustard variety</li> </ul>	<ul style="list-style-type: none"> <li>Varietal diversification and quality seed of mustard</li> </ul>	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Seeds and Chemicals
5	Yield enhancement, for Nutritional security	Lentil	Low Yield	--	<ul style="list-style-type: none"> <li>Integrated crop management in Lentil</li> <li>To demon. the yield potential of Lentil</li> </ul>	<ul style="list-style-type: none"> <li>Production technique of Rabi pulses</li> <li>Production technology of Bio fortified Lentil variety</li> <li>Quality seed production of pulses</li> </ul>	<ul style="list-style-type: none"> <li>Seed production Techniques of pulses</li> </ul>	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Seeds and Chemicals

6	Yield enhancement, for Nutritional security	Potato	Low Yield	• Varietal evaluation	--	• Production technology of nutritional rich potato variety and their seed production technique	--	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Seed
7	Yield enhancement, for Nutritional security	Okra	Low Yield	• Varietal evaluation	--	• Production technology of nutritional rich okra variety and their seed production technique	--	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Seed
8	Yield enhancement, for Nutritional security	Black Gram	Low Yield	--	• Integrated crop management in Black Gram	• Production technique of Zaid pulses • Importance of micro irrigation in Zaid crop	--	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Seeds and Chemicals
9	Entrepreneurs hip	Mango	Low income	Assessment of mango squash/ amchoor/ aamras making and its marketing for additional income	--	--	--	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Fruits
		Potato	Low income	Assessment of potato chips making and its marketing for additional income	--	--	--	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Equipments
		Vegetable	Low income & Poor health & hygiene	--	• Production of organic vegetable in kitchen garden (03 seasons)	• Minimization of wastage of seasonal vegetables through different preservation techniques -3	--	Field day, Kisan Mela, Kisan Gosthi, Electronic and Print media	Seed

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	03	--	--	--	02	--	--	--	--	05
Integrated Crop Management	01	--	--	02	--	--	--	--	--	03
Value addition	--	--	--	01	01	01	--	--	--	03
Integrated Pest Management	01	--	--	01	--	--	--	--	--	02
Integrated Disease Management	01	--	--	--	--	--	--	--	--	01
<b>TOTAL</b>	<b>06</b>	<b>--</b>	<b>--</b>	<b>04</b>	<b>03</b>	<b>01</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14</b>

### B. Details of On Farm Trial

#### OFT-1

Particulars	Contents
<b>Title</b>	Yield maximization through appropriate nitrogen management and use of two sprays as tank mix- Chlormequat chloride (Lihocin) @ 0.2% + tebuconazole (Folicur 430 SC) @ 0.1% of commercial product dose at First Node and Flag leaf stage.
<b>Problem diagnosed</b>	Low yield
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Farmers Practice T <sub>2</sub> - Use of Chlormequat chloride (Lihocin) @ 0.2% + tebuconazole (Folicur 430 SC) @ 0.1% of commercial product.
<b>No. of farmers</b>	05
<b>Replications</b>	10
<b>Critical inputs</b>	Chlormequat chloride (Lihocin) @ 0.2% + tebuconazole (Folicur 430 SC)
<b>Production system</b>	Rice-Wheat
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost (Rs.)</b>	Rs. 5000.00
<b>Observation to be recorded</b>	Yield (q/ha), Economics & B : C Ratio
<b>Reaction of the farmers</b>	Acceptability

#### OFT-2

Particulars	Contents
<b>Title</b>	<b>Assessment of suitable intercrop in sugarcane</b>
<b>Problem diagnosed</b>	Low income and employment problem
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Sole cropping T <sub>2</sub> - Sugarcane + Ginger
<b>No. of farmers</b>	05
<b>Replications</b>	10
<b>Critical inputs</b>	Seed of Vegetable Pea
<b>Production system</b>	Rice-Wheat

Source of technology	GBP UA&T, Pantnagar
Total Cost (Rs.)	5000/-
Observation to be recorded	Yield (q/ha), CEY, B:C ratio
Reaction of the farmers	Acceptability

#### OFT-3

Particulars	Contents
Title	<b>Assessment of suitable intercrop in sugarcane</b>
Problem diagnosed	Low income and employment problem
Micro farming situation	Irrigated
Details of technology identified for solution	T <sub>1</sub> - Sole cropping T <sub>2</sub> - Sugarcane + Linseed
No. of farmers	05
Replications	10
Critical inputs	Seed of Vegetable Pea
Production system	Rice-Wheat
Source of technology	GBP UA&T, Pantnagar
Total Cost (Rs.)	5000/-
Observation to be recorded	Yield (q/ha), CEY, B:C ratio
Reaction of the farmers	Acceptability

#### OFT-4

Particulars	Contents
Title	<b>Evaluation of high yielding and diseases resistant Basmati varieties</b>
Problem diagnosed	Low yield & heavy blast and use of old/ traditional variety
Micro farming situation	Irrigated
Details of technology identified for solution	T <sub>1</sub> - Pusa Basmati-1509 T <sub>2</sub> - Pusa Basmati-1847
No. of farmers	05
Replications	10
Critical inputs	Seed
Production system	Rice-Wheat
Source of technology	IARI, New Delhi
Total Cost (Rs.)	5000/-
Observation to be recorded	Incidence of disease, Lodging, Yield (q/ha), B:C ratio
Reaction of the farmers	Acceptability

#### OFT-5

Particulars	Contents
Title	<b>Evaluation of high yielding and diseases resistant varieties of Timely sown wheat</b>
Problem diagnosed	Low yield & heavy disease incidence in old/ traditional variety
Micro farming situation	Irrigated
Details of technology identified for solution	T <sub>1</sub> - DBW-17 T <sub>2</sub> - DBW-331
No. of farmers	05
Replications	10
Critical inputs	Seed

<b>Production system</b>	Rice-Wheat
<b>Source of technology</b>	IWBR, Karnal
<b>Total Cost (Rs.)</b>	5000/-
<b>Observation to be recorded</b>	Incidence of disease, Lodging, Yield (q/ha), C:B ratio
<b>Reaction of the farmers</b>	Acceptability

#### OFT-6

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Evaluation of high yielding and diseases resistant varieties of very Late sown wheat</b>
<b>Problem diagnosed</b>	Low yield & heavy disease incidence in old/ traditional variety
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> - DBW-16 T <sub>2</sub> - PBW 757
<b>No. of farmers</b>	05
<b>Replications</b>	10
<b>Critical inputs</b>	Seed
<b>Production system</b>	Rice-Wheat
<b>Source of technology</b>	IARI & IWBR
<b>Total Cost (Rs.)</b>	5000/-
<b>Observation to be recorded</b>	Incidence of disease, Lodging, Yield (q/ha), B:C ratio
<b>Reaction of the farmers</b>	Acceptability

#### OFT-7

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Evaluation of high yielding and diseases resistant varieties of Potato</b>
<b>Problem diagnosed</b>	Low yield & heavy disease incidence in old/ traditional variety
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Kufari Badsah T <sub>2</sub> - Kufari Mohan
<b>No. of farmers</b>	05
<b>Replications</b>	10
<b>Critical inputs</b>	Seed
<b>Production system</b>	Rice-Potato
<b>Source of technology</b>	CPRI, Meerut
<b>Total Cost (Rs.)</b>	5000/-
<b>Observation to be recorded</b>	Incidence of disease, Yield (q/ha), C:B ratio
<b>Reaction of the farmers</b>	Acceptability

#### OFT-8

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Evaluation of HYV of Okra</b>
<b>Problem diagnosed</b>	Low yield
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Gopi T <sub>2</sub> - Kashi Chaman
<b>No. of farmers</b>	05
<b>Replications</b>	10

<b>Critical inputs</b>	Seeds
<b>Production system</b>	Varietal evaluation
<b>Source of technology</b>	--
<b>Total Cost (Rs.)</b>	Rs. 3600/-
<b>Observation to be recorded</b>	Yield (q/ha), insect and disease incident, Economics
<b>Reaction of the farmers</b>	Acceptability

#### OFT-09

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Evaluation of effective fungicides against blast in paddy</b>
<b>Problem diagnosed</b>	Low productivity of basmati rice due to disease incidence
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T1- Tricyclozole @ 500 gm/ha T2- Tebuconazole 50% + Trifloxystrobin 25% WG @ 200 gm/ha
<b>No. of farmers</b>	05
<b>Replications</b>	10
<b>Critical inputs</b>	Chemicals
<b>Production system</b>	Rice-Wheat, Integrated Disease Management
<b>Source of technology</b>	SVPUA & Tech., Meerut
<b>Total Cost (Rs.)</b>	3000/-
<b>Observation to be recorded</b>	Incidence of disease, Yield (q/ha), B:C ratio
<b>Reaction of the farmers</b>	Acceptability

#### OFT-10

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Evaluation of insecticide in rice against stem borer</b>
<b>Problem diagnosed</b>	Low productivity of rice
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T1- Cartap Hydrochloride 50% SC T2- Profenofos 40% + Cypermethrin 4% EC @ 1000 ml/ha
<b>No. of farmers</b>	05
<b>Replications</b>	10
<b>Critical inputs</b>	Chemicals
<b>Production system</b>	Rice-Wheat, Integrated Disease Management
<b>Source of technology</b>	SVPUA & Tech., Meerut
<b>Total Cost (Rs.)</b>	5000/-
<b>Observation to be recorded</b>	Incidence of disease, Yield (q/ha), B:C ratio
<b>Reaction of the farmers</b>	Acceptability

#### OFT-11

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Evaluation of insecticide in sugarcane against white grub</b>
<b>Problem diagnosed</b>	Low productivity of sugarcane
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for</b>	T1- Chlorpyrifos @ 4 l/ha



<b>solution</b>	T2- 40% Fipronil + 40% imidachloprid @ 10 kg/ha
<b>No. of farmers</b>	05
<b>Replications</b>	10
<b>Critical inputs</b>	Chemicals
<b>Production system</b>	Rice-Wheat, Integrated Disease Management
<b>Source of technology</b>	SVPUA & Tech., Meerut
<b>Total Cost (Rs.)</b>	5000/-
<b>Observation to be recorded</b>	Incidence of disease, Yield (q/ha), B:C ratio
<b>Reaction of the farmers</b>	Acceptability

#### OFT-11

Particulars	Contents
<b>Title</b>	<b>Assessment of mango squash/ amchoor/ aamras making and its marketing for additional income</b>
<b>Problem diagnosed</b>	Low income of farm women due to no value addition of mango (mango squash/ amchoor/ aamras)
<b>Thematic Area</b>	Value Addition and Small scale industry
<b>Details of technology identified for solution</b>	T <sub>1</sub> -Farmer Practice (No value addition of mango only pickle) T <sub>2</sub> -Squash/ amchoor/ aamras making from mango
<b>Source of technology</b>	CISH, Lucknow, APC, CIAE Bhopal
<b>Characteristics of Technology/ Variety/ Product/ Enterprise</b>	1. High in Vitamins and Energy 2. Long Storage Life 3. High Palatability
<b>Farming/ Enterprise Situation</b>	Mixed farming
<b>No. of Trials</b>	05
<b>Performance Indicator/ Parameter</b>	<ul style="list-style-type: none"> <li>• Technical observations</li> <li>• Keeping quality of value added product</li> <li>• Nutritional cost of the product.</li> <li>• Economic Indicator</li> <li>• Income through product</li> <li>• CB ratio</li> <li>• FW Reaction and Feedback</li> </ul>
<b>Total Cost (Rs.)</b>	1000/-

#### OFT-12

Particulars	Contents
<b>Title</b>	<b>Assessment of potato chips making and its marketing for additional income</b>
<b>Problem diagnosed</b>	Low income due to low price of potato, no value added products and wastage due to surplus production
<b>Thematic Area</b>	Value Addition
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Farmer Practice (Raw potato sold commercially) T <sub>2</sub> - Potato chips making
<b>Source of technology</b>	APC, CIAE, Bhopal, FPU, SVPUA&T, Meerut
<b>Characteristics of Technology/ Variety/ Product/ Enterprise</b>	1. Long Storage life 2. Crisp and ready to eat chips 3. High Palatability 4. Low cost
<b>Farming/ Enterprise Situation</b>	Mixed farming
<b>No. of Trials</b>	05
<b>Performance Indicator/ Parameter</b>	<ul style="list-style-type: none"> <li>• Technical observations</li> </ul>

	<ul style="list-style-type: none"> <li>• Keeping quality of value added product</li> <li>• Packaging of Product</li> <li>• Economic Indicator</li> <li>• Comparison with market available chips</li> <li>• CB ratio</li> <li>• Farmers Reaction and Feedback</li> </ul>
<b>Total Cost (Rs.)</b>	2500/-

### OFT-13

Particulars	Contents
<b>Title</b>	<b>Value addition in Mushroom by making mushroom pickle</b>
<b>Problem diagnosed</b>	Wastage and low income from mushroom production
<b>Thematic Area</b>	Value Addition
<b>Details of technology identified for solution</b>	T <sub>1</sub> - Direct mushroom selling T <sub>2</sub> - Mushroom Pickle
<b>Source of technology</b>	ICAR-Directorate of Mushroom Research Solan, HP
<b>Characteristics of Technology/ Variety/ Product/ Enterprise</b>	1. Long Storage life 2. High Palatability
<b>Farming/ Enterprise Situation</b>	Entrepreneurship
<b>No. of Trials</b>	10
<b>Performance Indicator/ Parameter</b>	<ul style="list-style-type: none"> <li>• Keeping quality of value added product</li> <li>• Packaging of Product</li> <li>• Economic Indicator</li> <li>• BCR</li> </ul>
<b>Total Cost (Rs.)</b>	2500/-

### 3.2 Frontline Demonstrations

#### Cluster FLD

Crop	Technology for demonstration	Critical inputs	Season & Year	Area (ha)	No. of farmers/ demo.	Parameters identified
Black Gram	Integrated Crop Management	Seed @ 25 kg/ha., NPK Liquid Bio-fertilizer @ 2.5 lit./ha Sulphar @ 20 kg/ha & Zinc @ 12.5 kg/ha	Zaid 2023	20.0	50	<ul style="list-style-type: none"> <li>Grain yield (q/ha)</li> <li>Economics</li> </ul>
Moong	Integrated Crop Management	Seed @ 25 kg/ha., NPK Liquid Bio-fertilizer @ 2.5 lit./ha Sulphar @ 20 kg/ha & Zinc @ 12.5 kg/ha	Zaid 2023	20.0	50	<ul style="list-style-type: none"> <li>Grain yield (q/ha)</li> <li>Economics</li> </ul>
Black Gram	Integrated Crop Management	Seed @ 25 kg/ha., NPK Liquid Bio-fertilizer @ 2.5 lit./ha Sulphar @ 20 kg/ha & Zinc @ 12.5 kg/ha	Kharif 2023	20.0	50	<ul style="list-style-type: none"> <li>Grain yield (q/ha)</li> <li>Economics</li> </ul>
Til	Integrated Crop Management	Seed @ 4 kg/ha., NPK Liquid Bio-fertilizer @ 2.5 lit./ha Sulphar @ 20 kg/ha & Zinc @ 12.5 kg/ha	Kharif 2023	20.0	50	<ul style="list-style-type: none"> <li>Grain yield (q/ha)</li> <li>Economics</li> </ul>
Mustard	Integrated Crop Management	Seed @ 5 kg/ha., Sulphar @60 kg/ha, Boron @1.5 kg /ha & Clodinofof 0.6 kg ai/ha	Rabi 2023-24	20.0	50	<ul style="list-style-type: none"> <li>Grain yield (q/ha)</li> <li>Economics</li> </ul>
Lentil	Integrated Crop Management	Seed @ 25 kg/ha., NPK Liquid Bio-fertilizer @ 2.5 lit./ha Sulphar @ 20 kg/ha & Zinc @ 12.5 kg/ha	Rabi 2023-24	20.0	50	<ul style="list-style-type: none"> <li>Grain yield (q/ha)</li> <li>Economics</li> </ul>

#### A. Details of FLDs to be organized

SN	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season & Year	Area (ha)	No. of farmers/ demo.	Parameters identified
<b>Agronomy</b>									
1	Sugarcane	Co-1523	ICM	To demonstrate the effect of nursery plantation under late sown condition on sugarcane yield	Seedling of sugarcane	Zaid 2023	2.0	20	<ul style="list-style-type: none"> <li>Cane Yield (q/ha)</li> <li>Economics</li> </ul>
2	Sugarcane	Co-0238	ICM	To demonstrate the efficacy of new weedicide (Halow sulfuron methyl) for proper weed management	Halo Sulfuron methyl @ 90 gm/ha	Spring 2023	4.0	10	<ul style="list-style-type: none"> <li>Cane Yield (q/ha)</li> <li>Economics</li> </ul>
3	Paddy	Arize 6444 Gold	Weed management	To demonstrate the efficacy of pre-emergence new weedicide (Bispyribac sodium 10% SC) for proper weed management in rice	Bispyribac sodium @ 100 ml./acre	Kharif 2023	4.0	10	<ul style="list-style-type: none"> <li>No. of weeds per sqm</li> <li>Grain yield (q/ha)</li> <li>Economics</li> </ul>
4	Small millets	Varieties	ICM	Demonstration & popularization of small millets in farming community for better nutrition security	Seed of small millets	Kharif 2023	2.0	25	<ul style="list-style-type: none"> <li>Cane Yield (q/ha)</li> <li>Economics</li> </ul>

5	Sugarcane	Co-0238	ICM	Demonstration of Ring Pit Technique in sugarcane	Technical advisory	Rabi 2023-24	10.0	25	<ul style="list-style-type: none"> <li>▪ Cane Yield (q/ha)</li> <li>▪ Economics</li> </ul>
6	Sugarcane + Mustard	Co-0238	ICM	Increasing the productivity and profitability per unit area of sugarcane growers	Seed & Technical knowledge	Rabi 2023-24	8.0	20	<ul style="list-style-type: none"> <li>▪ Cane Equivalent Yield (q/ha)</li> <li>▪ Economics</li> </ul>
7	Small millets	Varieties of barley	ICM	Demonstration & popularization of small millets in farming community for better nutrition security	Seed of barley	Rabi 2023-24	2.0	25	<ul style="list-style-type: none"> <li>▪ Cane Yield (q/ha)</li> <li>▪ Economics</li> </ul>
<b>Plant Breeding</b>									
8	Sugarcane	Co-15023	Varietal demon.	To demonstrate the yield potential of sugarcane variety	Improved seed (Technical advisory)	Spring-2023	10.0	25	<ul style="list-style-type: none"> <li>▪ Cane yield (q/ha)</li> <li>▪ Economics</li> </ul>
9	Paddy	Pusa Basmati-1692	Varietal demon.	To demonstrate the yield potential and popularization of Scented rice variety	Improved seed (@ 20 kg / ha.	Kharif 2023	5.0	25	<ul style="list-style-type: none"> <li>▪ Lodging</li> <li>▪ Disease incidence</li> <li>▪ Grain yield (q/ha)</li> <li>▪ Economics</li> </ul>
10	Hybrid Rice	AZ-6741	Varietal demon.	To demon. the yield potential of hybrid rice variety	Improved seed @ 15 kg / ha.	Kharif 2023	2.0	10	<ul style="list-style-type: none"> <li>▪ Lodging</li> <li>▪ Disease incidence</li> <li>▪ Grain yield (q/ha)</li> </ul>
11	Mustard	Pusa Mustard-33	Varietal demon.	To demon. the yield potential and popularization of Bio fortified Mustard variety	Improved seed @ 4 kg / ha.	Rabi 2023-24	6.0	30	<ul style="list-style-type: none"> <li>▪ Grain yield (q/ha)</li> <li>▪ Economics</li> </ul>
12	Bio fortified Timely Sown Wheat	DBW-187	Varietal demon.	To demonstrate the yield potential and popularization of Bio fortified Wheat variety	Improved seed @ 100 kg / ha.	Rabi 2023-24	8.0	40	<ul style="list-style-type: none"> <li>▪ Lodging</li> <li>▪ Disease incidence</li> <li>▪ Grain yield (q/ha)</li> <li>▪ Economics</li> </ul>
13	Bio fortified Late Sown Wheat	DBW-173/HD - 3298	Varietal demon.	To demonstrate the yield potential & popularization of late sown wheat	Improved seed @ 120 kg / ha.	Rabi 2023-24	5.0	25	<ul style="list-style-type: none"> <li>▪ Lodging</li> <li>▪ Disease incidence</li> <li>▪ Grain yield (q/ha)</li> </ul>
<b>Horticulture</b>									
14	Okra	Kashi Lalima	Varietal demon.	Varietal demonstration	Seed	Zaid 2023	1.0	10	<ul style="list-style-type: none"> <li>▪ Yield q/ha</li> <li>▪ Economics</li> </ul>
15	Chilli	Rani/Sunidhi	Varietal demon.	Varietal demonstration	Seed	Kharif 2023	2.0	10	<ul style="list-style-type: none"> <li>▪ Yield q/ha</li> <li>▪ Economics</li> </ul>
16	Cauliflower	Pusa Aghani	IPNM	Impact of boron in cauliflower	Borax - 20 kg	Rabi 2023-24	1.0	10	<ul style="list-style-type: none"> <li>▪ Yield q/ha</li> <li>▪ Economics</li> </ul>
17	Strawberry	Sweet	Varietal demon.	Varietal demonstration	Runners	Rabi 2023-24	0.25	05	<ul style="list-style-type: none"> <li>▪ Yield q/ha</li> </ul>

		Charley							▪ Economics
Plant Protection									
18	Paddy	PB-6	Integrated pest management	Management of sheath blight & sheath rot	Validamycin @ 1.0 l/ha + Carbendazim @ 1 kg /ha	Kharif 2023	4.0	10	▪ % insect incidence ▪ Cane yield (q/ha) ▪ Economics
19	Paddy	PB-1	Integrated pest management	Management of BPH	Biprofugin @ 1.0 l/ha	Kharif 2023	4.0	10	▪ % insect incidence ▪ Grain yield (q/ha) ▪ Economics
20	Sugarcane	Co-0238	Integrated pest management	Management of top borer	Chlorentraniliprol 18.5% @ 200 ml/ha	Kharif 2023	2.0	10	▪ % insect incidence ▪ Grain yield (q/ha) ▪ Economics
21	Enterprises	Mushroom	Income security	Production & Promotion of mushroom	Spawn, Compost & Chemicals	Rabi 2023-24	--	25	▪ Gross return ▪ Net return ▪ C:B ratio
Home Science/Women empowerment									
22	Vegetable	Hybrids varieties	House hold food security by kitchen garden	Production of organic vegetable in kitchen garden	Bio power fertilizer & seed	Zaid 2023	0.20	20	▪ Gross return ▪ Net return ▪ C:B ratio
23	Vegetable	Hybrids varieties	House hold food security by kitchen garden	Production of organic vegetable in kitchen garden	Bio power fertilizer & seed	Kharif 2023	0.20	20	-do-
24	Vegetable	Hybrids varieties	House hold food security by kitchen garden	Production of organic vegetable in kitchen garden	Bio power fertilizer & seed	Rabi 2023-24	0.20	20	-do-

#### Sponsored Demonstration

SN	Crop	Area (ha)	No. of farmers

#### B. Extension and Training Activities under FLDs

SN	Activity	No. of activities to be organize	Month	Number of participants
1	Field days	30	June, Aug., Sept., Nov., Dec., Jan., Feb.,	2500
2	Farmers training	30	April, May, June, July, Aug., Sept., Nov., Dec.	600
3	Media coverage	30	June, August, Sept., Oct., Dec., Feb., March,	mass
4	Training for extension functionaries	26	April, May, June, July, Aug., Sept., Nov., Dec.	260

### C. Details of FLD on Enterprises

#### (i) Farm Implements :

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators

#### (ii) Livestock Enterprises :

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators

### 3.3 Training Programme

#### 8. ON Campus

Thematic area	No. of Courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Integrated Crop Management	3	48	--	48	12	--	12	60	--	60
Water Management	1	16	--	16	4	--	4	20	--	20
Nursery Management	1	16	--	16	4	--	4	20	--	20
Crop Diversification	2	32	--	32	8	--	8	40	--	40
<b>II Plant Breeding</b>										
Varietal Diversification	5	80	--	80	20	--	20	100	--	100
Seed Production	3	48	--	48	12	--	12	60	--	60
Seed Treatment	2	32	--	32	8	--	8	40	--	40
<b>III Horticulture</b>										
Production technology	3	48	-	48	12	-	12	60	-	60
<b>IV Plant Protection</b>										
Integrated Disease Management	2	32	-	32	8	-	8	40	-	40

Integrated Pest Management	2	32	-	32	8	-	8	40	-	40
<b>V Home Science/Women empowerment</b>						--				
Women and childcare	3	--	48	48	--	12	12	--	60	60
Drudgery reduction	1	--	16	16	--	4	4	--	20	20
<b>TOTAL</b>	<b>28</b>	<b>384</b>	<b>64</b>	<b>448</b>	<b>96</b>	<b>16</b>	<b>112</b>	<b>480</b>	<b>80</b>	<b>560</b>
<b>(B) RURAL YOUTH</b>										
Bee Keeping	1	--	8	8	--	2	2	--	10	10
High density orcharding	1	8	--	8	2	--	2	10	--	10
Mushroom Production	3	24	--	24	6	--	6	30	--	30
Nursery Production	2	16	--	16	4	--	4	20	--	20
Organic farming	2	16	--	16	4	--	4	20	--	20
Seed production	3	24	--	24	6	--	6	30	--	30
Value addition	1	--	8	8	--	2	2	--	10	10
Vermi Composting	1	8	--	8	2	--	2	10	--	10
<b>TOTAL</b>	<b>14</b>	<b>96</b>	<b>16</b>	<b>112</b>	<b>24</b>	<b>4</b>	<b>28</b>	<b>120</b>	<b>20</b>	<b>140</b>
<b>(C) Extension Personnel</b>										
Diversification	4	32	--	32	8	--	8	40	--	40
Gender mainstreaming through SHGs	1	--	8	8	--	2	2	--	10	10
Integrated Crop Management	7	56	--	56	14	--	14	70	--	70
IPM	4	32	--	32	8	--	8	40	--	40
Mushroom Production	1	--	8	8	--	2	2	--	10	10
Production Technology of Horticultural Crops	5	40	--	40	10	--	10	50	--	50
Seed Production	6	48	--	48	12	--	12	60	--	60
Storage	1	--	8	8	--	2	2	--	10	10
Women and Child care	3	--	24	24	--	6	6	--	30	30
<b>TOTAL</b>	<b>32</b>	<b>208</b>	<b>48</b>	<b>256</b>	<b>52</b>	<b>12</b>	<b>64</b>	<b>260</b>	<b>60</b>	<b>320</b>

## 9. OFF Campus

Thematic area	No. of Courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Crop Diversification	2	36	--	36	4	--	4	40	--	40
Integrated Crop Management	8	128	--	128	32	--	32	160	--	160
IPNM	2	32	--	32	8	--	8	40	--	40
Nursery management	1	16	--	16	4	--	4	20	--	20
Weed Management	2	32	--	32	8	--	8	40	--	40
<b>II Plant Breeding</b>										
Seed Production	2	32	--	32	8	--	8	40	--	40
Varietal Diversification	5	80	--	80	20	--	20	100	--	100
Seed Treatment	1	16	--	16	4	--	4	20	--	20
Resource Conservation	2	32	--	32	8	--	8	40	--	40
<b>III Horticulture</b>										
Production Technology	7	112	-	112	28	-	28	140	-	140
Production and Management Technology	4	64	-	64	16	-	16	80	-	80
Nutrient Management	1	16	-	16	4	-	4	20	-	20
<b>IV Plant Protection</b>										
Integrated Disease Management	3	48	-	48	12	-	12	60	-	60
Integrated Pest Management	9	144	-	144	36	-	36	180	-	180
<b>V Home Science/Women empowerment</b>										
Drudgery reduction	5	--	80	80	--	20	20	--	100	100
Value addition	7	--	112	112	--	28	28	--	140	140
Women and child care	3	--	48	48	--	12	12	--	60	60
<b>TOTAL</b>	<b>64</b>	<b>788</b>	<b>240</b>	<b>1028</b>	<b>192</b>	<b>60</b>	<b>252</b>	<b>980</b>	<b>300</b>	<b>1280</b>



C) Consolidated table (ON and OFF Campus)

Thematic area	No. of Courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Crop Diversification	4	68	0	68	12	--	12	80	--	80
Integrated Crop Management	11	176	--	176	44	--	44	220	--	220
IPNM	2	32	--	32	8	--	8	40	--	40
Nursery Management	2	32	--	32	8	--	8	40	--	40
Water Management	3	48	--	48	12	--	12	60	--	60
<b>II Plant Breeding</b>										
Resource Conservation	2	32	--	32	8	--	8	40	--	40
Seed Production	5	80	--	80	20	--	20	100	--	100
Seed Treatment	3	48	--	48	12	--	12	60	--	60
Varietal Diversification	10	160	--	160	40	--	40	200	--	200
<b>III Horticulture</b>										
Production Technology	10	160	-	160	40	-	40	200	-	200
Production and Management Technology	4	64	-	64	16	-	16	80	-	80
Nutrient Management	1	16	-	16	4	-	4	20	-	20
<b>IV Plant Protection</b>										
Integrated Disease Management	5	80	-	80	20	-	20	100	-	100
Integrated Pest Management	11	176	-	176	44	-	44	220	-	220
<b>V Home Science/Women empowerment</b>						--				
Drudgery reduction	6	--	96	96	--	24	24	--	120	120
Value addition	7	--	112	112	--	28	28	--	140	140

Women and child care	6	--	96	96	--	24	24	--	120	120
<b>TOTAL</b>	<b>92</b>	<b>1172</b>	<b>304</b>	<b>1476</b>	<b>288</b>	<b>76</b>	<b>364</b>	<b>1460</b>	<b>380</b>	<b>1840</b>
<b>(B) RURAL YOUTH</b>										
Bee Keeping	1	--	8	8	--	2	2	--	10	10
High density orcharding	1	8	--	8	2	--	2	10	--	10
Mushroom Production	3	24	--	24	6	--	6	30	--	30
Nursery Production	2	16	--	16	4	--	4	20	--	20
Organic farming	2	16	--	16	4	--	4	20	--	20
Seed production	3	24	--	24	6	--	6	30	--	30
Value addition	1	--	8	8	--	2	2	--	10	10
Vermi Composting	1	8	--	8	2	--	2	10	--	10
<b>TOTAL</b>	<b>14</b>	<b>96</b>	<b>16</b>	<b>112</b>	<b>24</b>	<b>4</b>	<b>28</b>	<b>120</b>	<b>20</b>	<b>140</b>
<b>(C) Extension Personnel</b>										
Diversification	4	32	--	32	8	--	8	40	--	40
Gender mainstreaming through SHGs	1	--	8	8	--	2	2	--	10	10
Integrated Crop Management	7	56	--	56	14	--	14	70	--	70
IPM	4	32	--	32	8	--	8	40	--	40
Mushroom Production	1	--	8	8	--	2	2	--	10	10
Production Technology of Horticultural Crops	5	40	--	40	10	--	10	50	--	50
Seed Production	6	48	--	48	12	--	12	60	--	60
Storage	1	--	8	8	--	2	2	--	10	10
Women and Child care	3	--	24	24	--	6	6	--	30	30
<b>TOTAL</b>	<b>32</b>	<b>208</b>	<b>48</b>	<b>256</b>	<b>52</b>	<b>12</b>	<b>64</b>	<b>260</b>	<b>60</b>	<b>320</b>
<b>Grand Total</b>	<b>138</b>	<b>1476</b>	<b>368</b>	<b>1844</b>	<b>364</b>	<b>92</b>	<b>456</b>	<b>1840</b>	<b>460</b>	<b>2300</b>

**Details of training programmes attached in Annexure -I**

### 3.4. Extension Activities

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	30	1850	450	2300	200	--	200	2050	450	2500
Kisan Mela	03	840	40	880	75	--	75	915	40	955
Kisan Ghosthi	04	390	35	425	25	--	25	415	35	450
Exhibition	05	150	20	170	20	--	20	170	20	190
Film Show	10	2000	200	2200	25	05	30	2025	205	2230
Farmers Seminar	02	150	25	175	25	--	25	175	25	200
Workshop	01	180	10	190	10	--	10	190	10	200
Group meetings	10	350	50	400	40	05	45	390	55	445
Lectures delivered as resource persons	30	mass	mass	mass	mass	mass	mass	mass	mass	mass
Newspaper coverage	25	mass	mass	mass	mass	mass	mass	mass	mass	mass
Radio talks	06	mass	mass	mass	mass	mass	mass	mass	mass	mass
TV talks	06	mass	mass	mass	mass	mass	mass	mass	mass	mass
Popular articles	09	mass	mass	mass	mass	mass	mass	mass	mass	mass
Extension Literature	10	mass	mass	mass	mass	mass	mass	mass	mass	mass
<b>Advisory services</b>										
Scientific visit to farmers field	650	4150	750	4900	300	50	350	4450	800	5250
Farmers visit to KVK	--	--	--	--	--	--	--	--	--	4000
Diagnostic visits	100	200	25	225	25	--	25	225	25	250
Exposure visits	04	150	25	175	25	--	25	175	25	200
Ex-trainees Sammelan	01	75	10	85	15	--	15	90	10	100
Soil health Camp	--	--	--	--	--	--	--	--	--	--
Animal Health	05	800	250	1050	200	50	250	1000	300	1300

Agri mobile clinic	--	--	--	--	--	--	--	--	--	--
Soil test campaigns	--	--	--	--	--	--	--	--	--	--
Farm Science Club Conveners meet	01	75	10	85	15	--	15	90	10	100
Self Help Group Conveners meetings	05	120	30	150	-	-	-	120	30	150
Mahila Mandals Conveners meetings	02	75	10	85	15	--	15	90	10	100
Celebration of important days (specify)	01	75	10	85	15	--	15	90	10	100
Krishi Mohostva	02	200	50	250	50	--	50	250	50	300
Krishi Rath	10	1285	20	1305	180	15	195	1465	35	1500
Pre Kharif workshop	01	200	50	250	50	--	50	250	50	300
Pre Rabi workshop	01	200	50	250	50	--	50	250	50	300
PPVFRA workshop	--	--	--	--	--	--	--	--	--	--
<b>Any Others</b>										
Soil Health Cards Distribution	--	--	--	--	--	--	--	--	--	--
Method Demonstrations	05	300	10	310	20	05	25	320	15	335
Seed Treatment Camp	05	300	10	310	20	05	25	320	15	335
Meeting at District level	05	300	10	310	20	05	25	320	15	335
Meeting at Village level	05	300	10	310	20	05	25	320	15	335
<b>Total</b>	<b>954</b>	<b>14715</b>	<b>2160</b>	<b>16875</b>	<b>1440</b>	<b>145</b>	<b>1585</b>	<b>16155</b>	<b>2305</b>	<b>22460</b>

### 3.5 Target for Production and supply of Technological products

#### SEED MATERIALS

SN	Crop	Variety	Qty targeted (qtl.)	Distributed to the farmers (Nos.)
<b>Cereals</b>				
1	Paddy	PB-1652	200.00	Supply to NSC/University
2	Wheat	HD-3226	200.00	Supply to NSC/University
	<b>Total</b>		<b>400.00</b>	

#### Participatory Quality Seed Production at farmer field

Crop	Variety	Quantity (qt)
Paddy	Pusa-1118, PB-1509, PB-1637	1500.00
Wheat	PBW-723, HD -2967, DBW-90, DBW-88, HD-3059, HD-3226	2000.00
Mustard	Pusa Mustard-31	25.00
Sugarcane	CO-0238, CO-118, COs-08272, UP-5125, CoSa-12235	2500.00

\* Above seed production will be conducting at farmer's field under the guidance of KVK Scientists

#### PLANTING MATERIALS

SN	Crop	Variety	Quantity (Nos.)	Distributed to the farmers (Nos.)
<b>VEGETABLES</b>	Bottle Guard, Cucumber, Sponge Guard, Pumpkin, Tomato, Brinjal, Cauliflower, Cabbage, Chilli	As per availability	20000	2000

#### BIO-PRODUCTS

SN	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>				
--	--	---	--	--

#### LIVESTOCK

SN	Type	Breed	Quantity	
			(Nos)	Unit
Cattle	--	--	--	--

### 3.6. Literature to be Developed/Published

#### (A) KVK News Letter

Date of start :  
Number of copies to be published :

#### (B) Literature developed/published

SN	Topic	Number	Name of Journal/ literature
1	Research paper each scientist	02 (10)	
2	Technical reports	05	
3	News letters	--	
4	Training manual all discipline	05	
5	Popular article	10	
6	Extension literature/bulletin	20	
7	Book and Book Chapter	05	
	<b>Total</b>	<b>50</b>	

**(C) Details of Electronic Media to be Produced**

SN	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			

**3.7. Success stories/Case studies identified for development as a case : 05 during 2023**

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for**

**Practicing Farmers**

- a)
- b)
- c)

**Rural Youth**

- a)
- b)
- c)
- d)

**In-service personnel**

- a)
- b)
- c)

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

**For FLD :**

- xiii) New variety/technology
- xiv) Poor yield at farmers level
- xv) Existing cropping system
- xvi) Others if any

**3.10 Field activities**

- i. Name of villages identified/adopted with block name - 02 adopted villages (Haijarpur, Sadhipur, Athai Aheer & Bhurapur)

### 3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Complete

1. Year of establishment : 2006

2. List of equipments purchase with amount

SN	Name of the equipment	Quantity	Cost (Rs)
1	Spectrophotometer	1	1,06,500.00
2	Flame photo meter	1	33,430.00
3	pH meter	1	10,350.00
4	Conductivity meter	1	8,750.00
5	Physical balance	1	11,990.00
6	Single pan balance electronic	1	87,000.00
7	Water distillation unit	1	85,000.00
8	Kejeldahl digestion apparatus	2	13,400.00
9	Kejeldahl distillation apparatus	2	30,000.00
10	Mechanical shaker	1	52,700.00
11	Refrigerator with stabilizer	1	12,000.00
12	Hot air oven	1	14,500.00
13	Heating plate	1	8,200.00
14	Grinder	1	23,253.00
15	Microscope - Olympus	1	4,600.00
	<b>Total</b>		<b>401,674.00</b>

### 3. Targets of samples for analysis :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	2000	--	--	--
Water	--	--	--	--
Plant	--	--	--	--
<b>Total</b>	--	--	--	--

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

SN	Name of organization	Nature of Linkages
1	State Agriculture Department	<ul style="list-style-type: none"><li>• Participation in Distt./Block/Village level trg. programmes.</li><li>• Participation in Exhibition, Krishi Nivesh Mela, Krishi Unnayan Pakhwara and Gosthies at different levels.</li><li>• Visit of Govt. farm for spot technical guidance.</li><li>• Participation in soil testing, organic farming, IPM &amp; INM promotion programmes.</li><li>• Participation in ATMA activities</li><li>• Promotion programme on oilseeds &amp; pulses under macro mode &amp; ISOPAM</li><li>• Promotion of Basmati rice cultivation</li></ul>
2	State Horticulture Department	<ul style="list-style-type: none"><li>• To impart training to farmer under DASP</li><li>• Participation in Distt./Block/Village level trg. programmes.</li><li>• Participation in Horticultural Exhibition and Gosthies at different levels.</li><li>• Visit of Horticultural nursery for spot technical guidance.</li></ul>

3	Forest Department	<ul style="list-style-type: none"> <li>• Participation in Distt./Block/Village level trg. programmes.</li> <li>• Participation in Environment Day &amp; Gosthies at different levels.</li> <li>• Visit of Forest nurseries for technical guidance.</li> <li>• Participation in plantation programmes.</li> </ul>
4	State Fisheries Department	<ul style="list-style-type: none"> <li>• Participation in Distt./Block/Village level trg. programmes.</li> </ul>
5	Animal Husbandry Department	<ul style="list-style-type: none"> <li>• Alignment and collaboration with Veterinary Officers and Chief Veterinary Officer for animal health camps &amp; vaccination programmes.</li> </ul>
6	Sugarcane Department	<ul style="list-style-type: none"> <li>• Participation in Distt./Block/Village level trg. programmes.</li> <li>• Participation in Exhibition, Mela and Gosthies at different levels.</li> <li>• Joins the team of Diagnostic Surveys.</li> </ul>
7	Soil Conservation Department	<ul style="list-style-type: none"> <li>• Participation in Distt./Block/Village level trg. programmes.</li> <li>• Joins the team of Bhumi Sena Yojna</li> </ul>
8	Irrigation Department	<ul style="list-style-type: none"> <li>• Participation in Distt./Block/Village level trg. programmes.</li> </ul>
9	State Seed Corporation	<ul style="list-style-type: none"> <li>• Registration of farmers for seed production.</li> <li>• Training for the seed certification and for gram beej utpadan yojana</li> </ul>
10	IFFCO, NFL & KRIBHCO	<ul style="list-style-type: none"> <li>• Participation in Distt./Block/Village level trg. programmes.</li> <li>• Participation in field days programmes.</li> <li>• Participation in Exhibition, Mela, Gosthies, Field day and Demon.</li> </ul>
11	SBI, NABARD, CANRA & PNB	<ul style="list-style-type: none"> <li>• Participation in Distt./Block/Village level trg. programmes.</li> <li>• Participation in Exhibition, Mela, Gosthies, Soil testing &amp; plantation programmes at different levels.</li> <li>• Facilitate the farmers for Kishan Credit Card &amp; financial advisory for SHGs.</li> </ul>

#### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

SN	Programme	Nature of linkage
1	Training programme	Participation in meeting and Gosthies
2	AES (Agro-Ecological situation)	--
3	Front line Demonstration (FLD)	For location specific recommendations or conducting FLDs

#### 4.3 Give details of programmes under National Horticultural Mission : Nil

SN	Programme	Nature of linkage
1		

#### 4.4 Nature of linkage with National Fisheries Development Board : NA

SN	Programme	Nature of linkage
1		

#### 5. Utilization of hostel facilities :

Accommodation available (No. of beds) : 20

SN	Programmes	No. of days
1		

#### 6. Convergence with departments:



**7.1. Details of the programmes being implemented by your KVK in partnership with other institution**

SN	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
1	CFLD	ICAR, ATARI, Kanpur	2023-24	--

**7.2. Brief achievements of above collaborative programmes**

SN	Name of Programme	Salient achievement	Impact of the programme
1	CFLD	During demonstration of cluster FLD its feel the production of pulses & oilseeds may be increased by sensitization about pulses production technique between farmers	--

**8. Achievements (Both Technical and physical) of sponsored programmes during the reporting period**

SN	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	TSP Project		
2	ARYA Project		
3	CFLD-NFSM Project		
	i. Kharif season		
	ii. Rabi season	During Rabi 2023-24 CFLD on Lentil & Mustard crop	
	iii. Summer season		
4	CSISA Project		
5	NICRA Project		
6	Soil Health Card		
7	Other (please specify)		
	<b>Total</b>		

9. Feedback of the farmers about the technologies demonstrated and assessed :

10. Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :

## Training Programme

### i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
08.05.23	PF	Nursery management in rice	1	16	-	16	4	-	4	20
11.05.23	PF	Production techniques of small millets	1	16	-	16	4	-	4	20
04.09.23	PF	Trench and Ring Pit Method in sugarcane	1	16	-	16	4	-	4	20
11.09.23	PF	Gau Aadharit natural farming	1	16	-	16	4	-	4	20
05.10.23	PF	Importance of micro irrigation in sugarcane	1	16	-	16	4	-	4	20
06.10.23	PF	Diversification in autumn sugarcane	1	16	-	16	4	-	4	20
12.10.23	PF	Production techniques of Rabi small millets	1	16	-	16	4	-	4	20
<b>Plant Breeding</b>										
16.05.23	PF	Production technology of basmati rice based on Gau Aadharit natural farming system	1	16	-	16	4	-	4	20
17.05.23	PF	Production technology of high yielding basmati varieties for higher economic gain	1	16	-	16	4	-	4	20
12.06.23	PF	Quality seed production of paddy	1	16	-	16	4	-	4	20
28.08.23	PF	Rouging in rice seed production	1	16	-	16	4	-	4	20
10.09.23	PF	Importance and methods of seed treatment in Rabi crops	1	16	-	16	4	-	4	20
12.09.23	PF	Production technology of nutritional rich potato variety and their seed production technique	1	16	-	16	4	-	4	20
14.09.23	PF	Varietal diversification and quality seed production of Sugarcane	1	16	-	16	4	-	4	20
05.10.23	PF	Varietal diversification and quality seed production of mustard	1	16	-	16	4	-	4	20
15.11.23	PF	Quality seed production of wheat	1	16	-	16	4	-	4	20
04.12.23	PF	Varietal diversification in wheat crop	1	16	-	16	4	-	4	20
<b>Horticulture</b>										
06.04.23	PF	Management of banana crops	1	16	-	16	4	-	4	20
05.07.23	PF	Planting technique of Guava and Mango	1	16	-	16	4	-	4	20
06.12.23	PF	Training & pruning of fruit crops	1	16	-	16	4	-	4	20
<b>Plant Protection</b>										
17.05.23	PF	Significance of seed treatment in Kharif crops	1	16	-	16	4	-	4	20
12.07.23	PF	Disease & insect management in paddy	1	16	-	16	4	-	4	20
27.09.23	PF	Integrated pest & disease management in paddy	1	16	-	16	4	-	4	20
07.11.23	PF	Significance of seed treatment in Rabi crops	1	16	-	16	4	-	4	20
<b>Home Science/Women empowerment</b>										
24.02.23	PF	Importance of green leafy Vegetables	1	-	16	16	-	4	4	20
04.04.23	PF	Combating Malnutrition through soy n pro mixture in children	1	-	16	16	-	4	4	20
19.07.23	PF	Different techniques of work simplification and reducing drudgery at home	1	-	16	16	-	4	4	20
10.12.23	PF	Combating nutritional anemia through iron and folic acid food supplement for pregnant women	1	-	16	16	-	4	4	20

**ii) Farmers & Farm women (OFF Campus)**

Date	Clientele	Title of the training programme	Duration in days	Number of other participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
12.01.23	PF	Importance of micro irrigation in sugarcane	1	16	-	16	4	-	4	20
05.02.23	PF	Intercropping in spring sugarcane	1	16	-	16	4	-	4	20
10.02.23	PF	Sugarcane ratoon management	1	16	-	16	4	-	4	20
15.05.23	PF	Soil Testing and its Utility	1	16	-	16	4	-	4	20
18.05.23	PF	Integrated plant nutrient management in rice	1	16	-	16	4	-	4	20
28.05.23	PF	Gau Aadharit natural farming	1	16	-	16	4	-	4	20
29.06.23	PF	Weed management in rice	1	16	-	16	4	-	4	20
10.07.23	PF	Use and Importance of bio fertilizers in Kharif crops	1	16	-	16	4	-	4	20
21.09.23	PF	Production technology of small millets	1	16	-	16	4	-	4	20
22.09.23	PF	Intercropping of mustard in autumn planted sugarcane	1	16	-	16	4	-	4	20
05.10.23	PF	Intercropping in autumn planted sugarcane	1	16	-	16	4	-	4	20
12.10.23	PF	Production technology of small millets	1	16	-	16	4	-	4	20
10.11.23	PF	Importance of micro irrigation in pulse crop	1	16	-	16	4	-	4	20
08.12.23	PF	Weed management in wheat	1	16	-	16	4	-	4	20
22.12.23	PF	Importance of water soluble fertilizer in crops	1	16	-	16	4	-	4	20
<b>Plant Breeding</b>										
22.01.23	PF	Varietal diversification and quality seed production of Sugarcane	1	16	-	16	4	-	4	20
12.02.23	PF	Quality seed production of pulses	1	16	-	16	4	-	4	20
10.05.23	PF	Production technology of basmati rice based on Gau Aadharit natural farming system	1	16	-	16	4	-	4	20
22.05.23	PF	Production technology of high yielding basmati varieties for higher economic gain	1	16	-	16	4	-	4	20
11.06.23	PF	Production technology of basmati rice based on Gau Aadharit natural farming system	1	16	-	16	4	-	4	20
20.09.23	PF	Production technology of wheat and mustard based on Gau Aadharit natural farming system	1	16	-	16	4	-	4	20
02.10.23	PF	Varietal diversification and quality seed production of Sugarcane	1	16	-	16	4	-	4	20
12.10.23	PF	Production technology of Bio fortified mustard variety	1	16	-	16	4	-	4	20
20.10.23	PF	Production technology of Bio fortified Lentil variety	1	16	-	16	4	-	4	20
02.11.23	PF	Production technology of Bio fortified Wheat variety	1	16	-	16	4	-	4	20
<b>Horticulture</b>										
05.01.23	PF	Training and pruning of mango & guava	1	16	-	16	4	-	4	20
10.01.23	PF	Production technique of vegetables	1	16	-	16	4	-	4	20
19.01.23	PF	Integrated nutrient management in vegetables	1	16	-	16	4	-	4	20
15.02.23	PF	Production technique of spices crops	1	16	-	16	4	-	4	20
12.04.23	PF	Production technique of summer season vegetables	1	16	-	16	4	-	4	20
01.06.23	PF	Nursery raising and production techniques of	1	16	-	16	4	-	4	20

		papaya								
16.08.23	PF	Production technique of strawberry	1	16	-	16	4	-	4	20
22.08.23	PF	Nutrient management in cole crops	1	16	-	16	4	-	4	20
06.09.23	PF	Production technique of winter season vegetables	1	16	-	16	4	-	4	20
05.10.23	PF	Nutrient management in mango	1	16	-	16	4	-	4	20
02.11.23	PF	Integrated nutrient management in French bean	1	16	-	16	4	-	4	20
30.11.23	PF	Production technique of winter season flowers	1	16	-	16	4	-	4	20
<b>Plant Protection</b>										
15.01.23	PF	Damping off & Fruit borer control in vegetables	1	16	-	16	4	-	4	20
28.01.23	PF	Integrated Pest management in sugarcane	1	16	-	16	4	-	4	20
18.02.23	PF	Integrated Pest management in vegetables	1	16	-	16	4	-	4	20
13.03.23	PF	Impact of seed treatment in Zaid crops	1	16	-	16	4	-	4	20
25.04.23	PF	Insect & Pest management in sugarcane	1	16	-	16	4	-	4	20
15.05.23	PF	Disease management in sugarcane	1	16	-	16	4	-	4	20
09.08.23	PF	Integrated pest management in pulses	1	16	-	16	4	-	4	20
11.10.23	PF	Blight disease management in potato	1	16	-	16	4	-	4	20
26.10.23	PF	Insect management in sugarcane	1	16	-	16	4	-	4	20
30.10.23	PF	Integrated pest management in orchard	1	16	-	16	4	-	4	20
08.11.23	PF	Preparation of agro solution for field crops	1	16	-	16	4	-	4	20
12.12.23	PF	Integrated diseases management in wheat	1	16	-	16	4	-	4	20
<b>Home Science/Women empowerment</b>										
13.01.23	PF	Use of vermin compost in kitchen garden	1	-	16	16	-	4	4	20
21.01.23	PF	Lay out and management of kitchen garden	1	-	16	16	-	4	4	20
06.02.23	PF	Method of cooking for saving fuel and nutrients	1	-	16	16	-	4	4	20
26.02.23	PF	How to take care kitchen Implements	1	-	16	16	-	4	4	20
03.03.23	PF	Combating nutritional anemia through iron and folic acid food supplement for pregnant women	1	-	16	16	-	4	4	20
11.04.23	PF	Different techniques of work simplification and reducing drudgery at home	1	-	16	16	-	4	4	20
03.05.23	PF	Water management in kitchen garden	1	-	16	16	-	4	4	20
01.06.23	PF	Food Security through kitchen garden	1	-	16	16	-	4	4	20
05.07.23	PF	Drudgery reduction and work simplification technique (WST) of farm Women during shelling of maize manually	1	-	16	16	-	4	4	20
02.08.23	PF	Minimization of wastage of seasonal vegetables through different preservation techniques	1	-	16	16	-	4	4	20
27.09.23	PF	Minimization of wastage of seasonal vegetables through different preservation techniques	1	-	16	16	-	4	4	20
30.10.23	PF	Drudgery reduction and work simplification technique (WST) of farm Women during shelling of maize manually	1	-	16	16	-	4	4	20
29.11.23	PF	Drudgery reduction of farm Women during milking of animals	1	-	16	16	-	4	4	20

03.12.23	PF	Minimization of wastage of seasonal vegetables through different preservation techniques	1	-	16	16	-	4	4	20
27.12.23	PF	Combating nutritional anemia through iron and folic acid food supplement for pregnant women	1	-	16	16	-	4	4	20

**iii) Vocational training programmes for Rural Youth**

Crop/ Enterprise	Identified Thrust Area	Title of the training programme	Month	Duration (days)	Number of other participants			Number of SC/ST			Grand Total
					M	F	T	M	F	T	
<b>Crop Production</b>											
Organic Farming	Organic Farming	Organic Farming	Jan., 23	5	8	-	8	2	-	2	10
Vermi composting	Vermi composting	Vermi composting	May, 23	5	8	-	8	2	-	2	10
Organic Farming	Organic Farming	Organic Farming	Oct., 23	5	8	-	8	2	-	2	10
<b>Plant Breeding</b>											
Sugarcane	Seed Production	Participatory quality seed production of Sugarcane	April, May, June - 23	5	8	-	8	2	-	2	10
Paddy	Seed Production	Participatory quality seed production of Basmati Rice	July, Aug., Sept.- 23	5	8	-	8	2	-	2	10
Wheat	Seed Production	Participatory quality seed production of Wheat	Oct., Nov., Dec.- 23	5	8	-	8	2	-	2	10
<b>Horticulture</b>											
Fruit and vegetables	Nursery production	Production technology of fruits and vegetables nursery	Jan., 23	5	8	-	8	2	-	2	10
Mango & Guava	High density orcharding	Planting technique and management of high density orcharding in mango & guava	June, 23	5	8	-	8	2	-	2	10
Fruit and vegetables	Nursery production	Production technology of fruits and vegetables nursery	Sept., 23	5	8	-	8	2	-	2	10
<b>Plant Protection</b>											
Income Generation	Mushroom	Mushroom production techniques	Jan., 2023	5	-	8	8	-	2	2	10
Income Generation	Mushroom	Mushroom production techniques	Sep., 2023	5	-	8	8	-	2	2	10
Income Generation	Mushroom	Mushroom production techniques	Dec., 2023	5	-	8	8	-	2	2	10
<b>Home Science/Women Empowerment</b>											
Income Generation	Value addition	Income enhancement by potato processing	Feb., 2023	5	-	8	8	-	2	2	10
Income Generation	Bee Keeping	Bee Keeping	July, 2023	5	-	8	8	-	2	2	10

iv) **Training programme for Extension Functionaries**

Date	Clientele	Title of the training programme	Duration in days	Number of other participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
10.02 .23	EF	Nursery management in rice	1	8	-	8	2	-	2	10
16.02 .23	EF	Production techniques of small millets	1	8	-	8	2	-	2	10
19.05 .23	EF	Trench and Ring Pit Method in sugarcane	1	8	-	8	2	-	2	10
20.05 .23	EF	Gau Aadharit natural farming	1	8	-	8	2	-	2	10
13.08 .23	EF	Importance of micro irrigation in sugarcane	1	8	-	8	2	-	2	10
15.09 .23	EF	Diversification in autumn sugarcane	1	8	-	8	2	-	2	10
08.12 .23	EF	Production techniques of Rabi small millets	1	8	-	8	2	-	2	10
<b>Plant Breeding</b>										
11.02 .23	EF	Varietal diversification and quality seed production of Sugarcane	1	8	-	8	2	-	2	10
14.05 .23	EF	Production technology of high yielding basmati varieties for higher economic gain	1	8	-	8	2	-	2	10
21.05 .23	EF	Production technology of basmati rice based on Gau Aadharit natural farming system	1	8	-	8	2	-	2	10
15.06 .23	EF	Quality seed production of paddy	1	8	-	8	2	-	2	10
25.09 .23	EF	Varietal diversification and quality seed production of Sugarcane	1	8	-	8	2	-	2	10
30.09 .23	EF	Importance and methods of seed treatment in Rabi crops	1	8	-	8	2	-	2	10
03.10 .23	EF	Varietal diversification and quality seed of mustard	1	8	-	8	2	-	2	10
15.10 .23	EF	Production technology of wheat and mustard based on Gau Aadharit natural farming system	1	8	-	8	2	-	2	10
12.11 .23	EF	Production technology of Bio fortified Wheat variety	1	8	-	8	2	-	2	10
20.11 .23	EF	Varietal diversification in wheat crop	1	8	-	8	2	-	2	10
<b>Horticulture</b>										
16.0 2.23	EF	Planting technique of Mango & Guava	1	8	-	8	2	-	2	10
25.0 5.23	EF	High density orcharding in mango & guava	1	8	-	8	2	-	2	10
07.0 9.23	EF	Production technology of vegetables	1	8	-	8	2	-	2	10
08.1 0.23	EF	Production technology of flowering plants	1	8	-	8	2	-	2	10
12.1 2.23	EF	Production technology of fruit crops	1	8	-	8	2	-	2	10

Plant Protection										
24.01.23	EF	Integrated pest management in orchard	1	8	-	8	2	-	2	10
11.05.23	EF	Integrated pest management in sugarcane	1	8	-	8	2	-	2	10
13.07.23	EF	Integrated pest management in paddy	1	8	-	8	2	-	2	10
14.09.23	EF	Mushroom production technology	1	8	-	8	2	-	2	10
14.12.23	EF	Integrated pest management in vegetables	1	8	-	8	2	-	2	10
Home Science/Women empowerment										
29.01.23	EF	Scientific grain storage	1	-	8	8	-	2	2	10
15.04.23	EF	Different Roles of SGH and its importance in decision making	1	-	8	8	-	2	2	10
30.09.23	EF	Combating Malnutrition through soy n pro mixture in children	1	-	8	8	-	2	2	10
22.10.23	EF	Combating nutritional anemia through iron and folic acid food supplement for pregnant women	1	-	8	8	-	2	2	
28.11.23	EF	Balance diet for pregnant women	1	-	8	8	-	2	2	10

v) **Sponsored Programmes**

Discipline	Sponsoring agency	Clientele	Title of the training programme							No. of course
a) Sponsored training programme										
b) Sponsored research programme										
c) Any special programmes										

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# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA BULANDSHAHR**



**DETAILS OF ACTION PLAN OF KVK Bulandshahr DURING 2023**  
(1<sup>st</sup> January 2023 to 31<sup>st</sup> December 2023)

**1. GENERAL INFORMATION ABOUT THE KVK**

**1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail	Website
KVK Bulandshahr (Cotton Research Farm, DM Road Bulandshahr), U.P.	Office	FAX	bulandshahrkvk@gmail.com	www.bulandshahr.kvk4.in
	05732-223103			

**1.2 .a. Name and address of host organization with phone, fax and e-mail**

Address	Telephone		E mail	Website
	Office	FAX		
SVPUA&T, ModipuramMeerut(U.P.)	0121-2411511		deesvpuat2014@gmail.com	www.svbpmeerut.ac.in

1.2.b. Status of KVK website : Yes/No: Yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : 725


1.2.d Status of ICT lab at your KVK : Yes

**1.3. Name of the Programme Coordinator with phone & mobile no.**

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Laxmi Kant	05732-223103	9411215276	

**1.4. Year of sanction: 2004**

**1.5. Staff Position (as on 01 September 2022)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	Head/ Sr Scientist	Dr. Laxmi Kant	Head /Prof.	Plant Protection	37400-67000	10000	71610	26-04-1995	Permanent	SC	9411215276	laxmikantkvk@gmail.com	

2	SMS/ Asstt. Prof.	DrReshu Singh	SMS/ Asstt Prof.	Plant protection	15600-39100	6000	31690	23-06-2008	Permanent	SC	9412672253	reshu_258@rediffmail.com	
3	SMS/ Asstt. Prof.	DrVivek Raj	SMS/ Asstt Prof.	Agronomy	15600-39100	7000	33840	26-12-2008	Permanent	Other	9412890886	drrajvivek@gmail.com	
4	SMS/ Asstt. Prof.	Smt KM. Tirpathi	SMS/ Asstt Prof.	Home Science	15600-39100	6000	29070	26-12-2008	Permanent	other	9410675174	kirtitirpathi.dixit@gmail.com	
5	SMS	Dr. PallaviChaudhiary	SMS	Horticulture	15600-39100	5400	56100	02-07-2022	Permanent	SC	9458505049	pallavichaudharyhort@gmail.com	
6	SMS	Dr. Nadeem Shah	SMS	Animal Science	15600-39100	5400	56100	16-08-2022	Permanent	OBC			
7	Computer Programmer	Sh.Zayee m Khan	Prog. Asstt	Computer	9300-34600	4600	53600	30-07-2007	Permanent	other	8126504311	zksvpu@yahoo.com	
8	Accountant / Superintendent	Sh. R.K Garg	Accountant/superintendent	Account	9300-34600	4800	81200	17-01-2094	Permanent	other	9457034310	gargsvpuat@gmail.com	
9	Training Assistant	Sh. SurajBhan	Training Assistant	Agronomy	15600-39100	5400		26-12-2008	Permanent	OBC	8273443441	sirohirk@gmail.com	
10	Jeep Driver	Sh. Vijendra Kumar	Driver		5200-20200	2800		26-12-2008	Permanent	other	9720441597	-	
11	Supporting staff	Sh. Harish Kumar	Attendant	-	5200-20200	2400		26-12-2008	Permanent	SC	8439208655	-	

**1.6. Total land with KVK (in ha) : 10.00**

S. No.	Item	Area (ha)
1	Under Buildings	Nil
2.	Under Demonstration Units	Nil
3.	Under Crops	9.7
4.	Horticulture	-
5.	Pond	-
6.	Others if any	0.3

**1.7. Infrastructural Development: Nil**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2022			March 2021		To be Completed
2.	Farmers Hostel							
3.	Staff Quarters (6)							
4.	Demonstration Units (2)							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown, Two Room, Tubewell	Revolving Fund	2014	46.56	714904.00			
	Other							

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bike (Motor Cycle)	2010	50000.00	74670.00	Working
Tractor	2017	525000.00	332 (hour)	Working
Jeep (Bolero)	2022			Working

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer	2010		Working
Digital Camera	2010	15000.00	Non-Working
Lap top & Tablet	2015	42000.00	Working
ICT, Lab	2017	300000.00	Working
Rotavator, Cultivator, Harro, Bundle maker, Leveler	2017	158050.00	Working

**1.8. A). Details of SAC meetings to be conducted in the year**

Sl.No.	Date
1. Scientific Advisory Committee	December, 2023

**2. DETAILS OF DISTRICT**

**2.1 Major farming systems/enterprises (based on the analysis made by the KVK)**

S. No	Farming system/enterprise
1	Rice-Wheat-Dairy
2	Maize-Potato-Sorghum(Fodder)-Dairy
3	Maize-Mustard-Moong-Beekeeping
4	Rice-Wheat-Sugarcane-Ratoon-Beekeeping
5	Bajra-Toria-Late Wheat-Goatary
6	Horticulture & Agro-forestry

## 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

### a) Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1.	Western Plain	The soils are alluvial in nature and partially affected by salts. Average annual rain fall is 797 ml and the temperature ranges from 3 ° c to 44 ° c. The average related humidity ranges from 30 to 95 %. Cropping intensity of the zone is 155 %. Paddy, maize rice, sugarcane ,rap seed and mustard are the major field crop of the zone. Potato, vegetable pea, tomato, brinjal, garlic, onion and flowers are also cultivated.

### b) Topography

S. No.	Agro ecological situation	Characteristics
1	AES I	Irrigated, loam to sandy loam soil with medium water holding capacity and good drainag
2	AES II	Irrigated, sandy soil with poor water holding capacity and low organic matter
3	AES III	Irrigated, Loam to clay soil with good water holding capacity

## 2.3 Soil Types

SN	Soil type	Characteristics	Area in ha
1	Ganga khaddar	1. Light brown sandy loam to sandy, generally structure less, medium in water holding capacity and organic matter, moderately alkaline, restricted drainage, surface soils poor in lime contents but the middle layer is calcareous, medium in soluble salts, carbonates and sulphates practically absent	-
2	Ganga recent alluvium	Light gray to light brownish gray, sandy loam, average water holding capacity, neutral in reaction, slightly calcareous, low in organic matter content , impeded Drainage and prone to salinity in the water logged areas, average in soluble salts but injurious carbonates are absent.	
3	Ganga upland	Light gray to light brownish gray, sandy loam, average water holding capacity, neutral in reaction, slightly calcareous, low in organic matter content , impeded drainage and prone to salinity in the water logged areas, average in soluble salts but injurious carbonates are absent.	
4	Ganga Flats	Brown at surface and lighter brown, sandy loam, medium water holding capacity, neutral non-calcareous, fair drainage, low in soluble salts mainly comprising of bicarbonates and chlorides of sodium.	
5	Central low lands	The color varies from gray to grayish brown at the surface to slightly light at lower depths. Light texture at surface but becoming heavier below, medium water holding capacity, neutral in reaction but lower layers moderately calcareous. High soluble salts that increase with depth.	
6	Yamuna Flats	Surface soil gray in colour which darkens below, becoming gray again in the third horizon . Texture is clay loam at surface and heavier below, poor water holding capacity, neutral in reaction and medium water soluble salts comprising mainly bicarbonates and chlorides of sodium	

## 2.4. Area, Production and Productivity of major crops cultivated in the district (2022)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Wheat	207838	765040	38.20
2	Sugarcane	52625	32527344	629.25
3	Paddy	73590	1773520	24.1
4	Maize	55140	1312332	23.8
5	Pigeon Pea	10295	73095	7.10
6	Rape seed & Mustard	8294	96625	11.65
7	Moong	2080	11440	5.50
8.	Potato	7558	1423322	208.32

Source: District agriculture department.

## 2.5. Weather data (2023)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

### 3.7. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Desi</i>	67942	9236 MT	5.13
<i>Cross-breed</i>	107139		
<b>Buffalo</b>	1226146	10562.6 MT	5.76
<b>Sheep</b>			
<b>Goats</b>			
<b>Pigs</b>			
<i>Crossbred</i>	9208		
<i>Indigenous</i>	31663		
<b>Rabbits</b>	206		
<b>Poultry</b>			
Hens			
<i>Desi</i>			
<b>Category</b>		<b>Production (Q.)</b>	<b>Productivity</b>
Agro-Forestry	500		

### 2.7 Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Bulandshahr	Bulandshahr	Ghijori, Machkauli, Chawli, Devali, Jainpur,	Rice, Wheat, Pigeon Pea, Sugarcane, Potato, Mango, Animals	Diseases infection (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal, Imbalance fertilizer	Low organic matter, More infection of insect , pest , and diseases
	Lakhaoti	Daultabad, AlwaRahampur, Pipala, Prempur, Pasoli Seekri	Rice, Wheat, Pigeon Pea, Sugarcane, Potato, Mango, Animals	Diseases infection (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal Imbalance fertilizer	Low organic matter, More infection of insect , pest , and diseases
	Gulaoti	Gyastipur GinauraShekh, Baral Ulehra	Rice, Wheat, Pigeon Pea, Sugarcane, Potato, Mango, Animals, Poultry	Diseases infection (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal Imbalance fertilizer	Low organic matter, More infection of insect , pest , and diseases
	B.B.Nagar	Ladpur, Dhakoli, Nisurkha, Partapur, Gyastipur, Banboi	Rice, Wheat, Pigeon Pea, Sugarcane, Potato, Mango, Animals, Bee keeping	Diseases infection (Blast, Sheath blight, BLB) Weed problem, Termite, white grub, Sterility in animal Imbalance fertilizer	Low organic matter, More infection of insect , pest , and diseases

### 2.8 Priority thrust areas

S. No/Subject	Thrust area
1. Agronomy	i) Low Organic Matter content in the soil. ii) Imbalance use of major plant nutrients and minimum use of micro nutrients. iii) Unawareness about crop diversification.
2. Horticulture	i) Improper management of orchard. ii) Inadequate knowledge about spices, medicinal plant cultivation and floriculture. iii) Imbalance use of fertilizers in orchards
3. Plant protection	i) Injudicious use of insecticide and pesticide. ii) Unawareness about recent plant protection measures iii) Unawareness about the cultivation on mushroom for edible purpose iv) Unawareness about the insect and disease symptoms.
5. A.H.& Dairying)	i) Improper nutritional management in cattle. ii) Problem in repeated heat and non- coceivation. iii) Lack of knowledge about cross breed of milch animals with high genetic potential.
6. Home Science	i) Lack of income generating programme for farm women. ii) Unawareness about maintenance of health and hygiene of expecting mother and pre and postnatal conditions. iii) Inscientific knowledge about food preservation techniques. iv) Lack of enthusiasm amongst rural women for the formation of self help groups.

### 3. TECHNICAL PROGRAMME

#### A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
11	68	40.8	205

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
105	2095	1353	20209

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
200	20000	-	1200

#### 3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
01	Drudgery reduction	Sugarcane	Drudgery in sugarcane cutting for sowing	-	Demonstratin of sugarcane bud chipper				
02	Gender mainstreaming through SHGs	Handmade natural soaps	Lack of income generation activities		Demonstratio n natural handmade soap preparation				
03	Value addition	Millets and spices	Micronutrient deficiency and gastro intestinal disorders	Assessment of Multigrain flour with spices to combat gut related disorders					
04	Designing of high nutrient efficiency diet	Soybean and millets	Low hemoglobin and malnourishment in pregnant women	Assessment of Soy n Pro mixturetto combat malnutrition		Designing of high nutrient efficiency diet for pregnant women			
1	INM	Wheat	Low Production of Wheat due to unavailability of phophatic fertilizer at the time of sowing	To find out alternate means to increase the productive of timely sown wheat through use water soluble phophatic fertilizer	-	Best utilization of natural resouces and alternate means of phophatic fertilizer			
2	Weed Management	Paddy	Use of suitable new generation l herbicide	Chemical weed management for higher yield of Paddy					
4	Integrated Pest Management	Maize (Pioneer P- 1844, DK-9108)	Low production	Assessment of technology against fall army worm in Maize		IPM in Maize			



5	Integrated disease Management	Cucumber (KashiNutan/Abhnav)	Low production	Assessment of technology against downy mildew in cucurbits		IDM in Cucumber			
7	Disease (disorder) Management	<b>Buffalo</b>	Higher incidences of repeat breeding.	Assessment of non clinical remedies in controlling repeat breeding.					
8	Dairy Nutrient management	<b>Cow</b>	High incidence of infertility in cows	Assessment of UMMB animal feed supplementation to control the infertility					
9	Weed management	Paddy (Pusa-1509)		-	Use of new generation post emergence herbicides (Thiafamone 20% + Ethoxysulfuron 10% WG 90 g/acre)				
10	IPM in Mango	Amrapali/Dussahri/Chounsa	Fruit fly infestation in mango	-	Use of fruit fly traps/ methyl euginol traps @ 20 traps/ha	IPM in mango			
11	IDM in paddy	Paddy (Pusa-1509/Pusa-1121)	Bakane disease in paddy	-	Use of Trichoderma soil application @ 5 kg/ha + Seed treatment by Tebuconazole 50% + Trifloxystrobin 25% WG	IDM in Paddy			
12	IDM in potato	Potato (KufriBahar/Kufri Mohan/Chipsona)	Late blight incidence in potato	-	Use of Thyfluzamide 24% SC as seed treatment @ 150 ml/ 25 bags + Foliar spray of Femoxadone 16.6% +Cymoxanil 22.1% @ 500 ml/ha	IDM in potato			
	Weed Management	Wheat (DBW-88)	Weed	-	Use of latest herbicide in timely sown wheat for reducing the cost of cultivation (Pinodexon @ 1 lit/ha + metsulfuran mathel @ 20 g/ha				

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	TOTAL
Varietal Evaluation					01				01
Weed Management	01								01
Integrated Nutrient Management	01				02				03
Value addition	02								02
Integrated Pest Management	01								01
Integrated Disease Management					01				01
<b>TOTAL</b>	<b>05</b>				<b>04</b>				<b>09</b>

#### A.2. Abstract on the number of technologies to be refined in respect of crops : NIL

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Nutrition Management	01							01
Disease of Management	01							01
<b>TOTAL</b>	<b>02</b>							<b>02</b>

### B. Details of On Farm Trial

#### TrialOFT-1

Crop/Enterprise	Paddy(PS-1509)
Title of OFT	Chemical weed management for higher yield of Paddy
Problem diagnosed	Use of suitable chemical herbicide
Farming situation"	Irrigated
Farmer's Practice	Pretilachore@1.Skr/haasPE
Details of technology selected for assessment/refinement	T1 :- Farmers Practice (Pretilachore@1.Skr/haasPE) T2:- Fenoxaprop- p-ethyl 69 EC @ 250 ml/acre)
SourceofTechnology	Directorate of weed science, Jabalpur.
No.ofFarmers	04(0.4ha.Each)
CriticalInput	Chemicalweedicide
Performanceindicators	
a)Technical	1. No.ofweeds/m2 2. Daystomaturity 3. GrainYieldt/ha.
b)Economic	C:BRatio
c)Social	Adoptabilityoftechnology.



**OFT-2**

Crop/Enterprises	Wheat(DBW-17)
Title of OFT	To find out a harnata Phosphorus means to increase the productive of wheat under poor supply of phosphatic fertilizer.
Problem diagnosed	Low Production of Wheat due to scarcity of phosphatic fertilizer at the time of sowing
Farming Situation	Irrigated
Production System and thematic area	INM
Farmers Practice	Use of DAP as Phosphorus source as basal and no soil testing
Details of technology selected for assessment/ refinement	T1 : Use of DAP as Phosphorus source as basal and no soil testing T2:- 03 Spray of NPK (0:52:34)- @ 14 kg/ha soluble fertilizer
Source of Technology	IFFCO Gurgaon
No. of Farmers	04 (0.4 ha Each)
Critical Input	Soluble fertilizer NPK (17:60:0)
Total Cost	5000.00
Performance indicators	
a) Technical	1 No of tillers 2. Days to flowering & maturity 3. Grain yield quintal/ha 4. Economic study
b) Economic	C:B Ratio
c) Social	Adoptability of technology.

**OFT:- 03**

<b>Crop /Enterprise</b>	Cauliflower
<b>Title of OFT</b>	Assessment of efficient use of Nutrients with high yielding cauliflower variety for higher income
<b>Problem diagnosed</b>	Low yield of cauliflower due to imbalance use of micronutrients production system
<b>Production system and Thematic Area</b>	Nutrient use efficiency
<b>Farming Practice</b>	Local Variety
<b>Details of technology selected for assessment/ refinement</b>	T1 :Farmers Practice T2:- High yielding cauliflower variety (Pusasharad) with balance use of fertilizer N:P:K kg/ha (100:60:60) & spray of soluble fertilizer 18:18:18 N:P:K @0.5% at 20, 30 DAT
<b>Source of Technology</b>	IARI New Delhi
<b>No. of Farmers</b>	5
<b>Critical Input</b>	Seed & Soluble fertilizer
<b>Total Cost</b>	5000.00
<b>Performance indicators</b>	
<b>a) Technical</b>	1 Yield 2. % Increase in yield
<b>b) Economic</b>	C:B Ratio
<b>c) Social</b>	Adoptability of technology.

**OFT:- 04**

<b>Crop /Enterprise</b>	Tomato
<b>Title of OFT</b>	Assessment of efficient use of Ferrous Ammonium Sulphate with HYV of Tomato for yield maximizations.
<b>Problem diagnosed</b>	Low yield of Tomato due to less nutrient management
<b>Production system and Thematic Area</b>	Micro Nutrient Deficiency in Crops.
<b>Farming Situation e</b>	Irrigated
<b>Details of technology selected for assessment/ refinement</b>	T1 :Farmers Practice T2:- HYV (Hybrid KashiAdarsh) + Riased bed 50 P x60R Spacing +Staking + Root dip in Azotobactor @1% soluation + NPK (12:50:40) On Soil Test basis and spray of FAS (Ferrous Ammonium Sulphate) @ 20 ppm at 30, 45 & 75 DAT.
<b>Source of Technology</b>	IIVR Varansi
<b>Replication</b>	05
<b>No. of Farmers &amp; Area</b>	5 (400 m2 each)
<b>Critical Input</b>	Seed & Ferrous Ammonium Sulphate (FAS)
<b>Total Cost</b>	5000.00
<b>Performance indicators</b>	
<b>a)Technical</b>	1. Plant height 2. No. of flowers per plant 3. Yield per plant (q/ha) 4. % increase in yield
<b>b) Economic</b>	C:B Ratio
<b>c)Social</b>	Adoptability of technology.

**OFT:- 05**

<b>Crop /Enterprise</b>	Chilli
<b>Title of OFT</b>	Assessment of efficient use of Naphthalene Acetic Acid (NAA) Chlormecot Chloride (Lehoshin) with HYV for yield maximization.
<b>Problem diagnosed</b>	Low yield of Chilli due to flower drop
<b>Production system and Thematic Area</b>	INM
<b>Farming Situation</b>	Irrigated
<b>Details of technology selected for assessment/ refinement</b>	T1 :Farmers Practice T2:- HYV ( KashiAnmol/Azad Mirch-1) with Naphthalene Acetic Acid (NAA) Chlormecot Chloride (Lehoshin) @ 20 ppm at 30 days DAT.
<b>Source of Technology</b>	IIVR Varansi
<b>Replication</b>	05
<b>No. of Farmers &amp; Area</b>	5 (400 m2 each)
<b>Critical Input</b>	Seed & NAA/Chlormecot Chloride (Lehoshin)
<b>Total Cost</b>	5000.00
<b>Performance indicators</b>	
<b>a)Technical</b>	1. Plant height 2. Date of 1 <sup>st</sup> flowering 3. Date of 50% flowering 4. Yield (q/ha) 5. No. of furit/plant 6. % increase in yield
<b>b) Economic</b>	C:B Ratio
<b>c)Social</b>	Adoptability of technology.

**OFT:- 06**

<b>Crop/Enterprises</b>	Maize (Pioneer P- 1844, DK-9149)
<b>Title of on-farm trial</b>	Assessment of technology against fall army worm in Maize.
<b>Problem diagnosed</b>	Low production
<b>Production system and thematic area</b>	Integrated Pest Management
<b>Farming situation</b>	Irrigated
<b>Farmer's practices</b>	T1- Farmer practices (Foliar spray of Emamectin Benzoate 1.5% + Fipronil 3.5% SC@750 ml/ha )
<b>Details of technologies selected for assessment/refinement</b>	T2 – Seed treatment by Cyantraniliprole 19.8% + Thiomethoxam 19.8% @ 4 ml/kg seed + Foliar Spray of Chlorantraniliprole 18.5% SC @ 0.3ml/lit of water
<b>Source of technology</b>	NCIPM, New Delhi
<b>No. of farmers</b>	05 (0.4 ha. Each)
<b>Critical input</b>	Cyantraniliprole 19.8% + Thiomethoxam 19.8%, Chlorantraniliprole 18.5% SC
<b>Performance indicators</b>	% Insect Incidence
<b>a). Technical</b>	Yield (qt/ha)
<b>b) Economic</b>	C:B Ratio
<b>c) Social</b>	Adoptability of technology.

**OFT:- 07**

<b>Crop/Enterprises</b>	Cucumber (KashiNutan/ Abhinav)
<b>Title of on-farm trial</b>	Assessment of technology against Downy mildew ( <i>Pseudoperenosporacubensis</i> ) in cucumber
<b>Problem diagnosed</b>	Yield loss in cucumber
<b>Production system and thematic area</b>	Integrated Disease Management
<b>Farming situation</b>	Irrigated
<b>Farmer's practices</b>	T1- Farmer practices (Foliar spray of cypermethmin@ 1250 ml/ha )
<b>Details of technologies selected for assessment/refinement</b>	T2 – Foliar spray of cymoxanil 8% + mancozeb 64% WG
<b>Source of technology</b>	NCIPM New Delhi
<b>No. of farmers</b>	05 (0.4 ha. Each)
<b>Critical input</b>	cymoxanil 8% + mancozeb 64% WG @ 1500 gm/ha (fungicide)
<b>Performance indicators</b>	Percent disease incidence.
<b>a). Technical</b>	Yield (qt/ha)
<b>b) Economic</b>	C:B Ratio
<b>c) Social</b>	Adoptability of technology.

**OFT:- 08**

<b>Crop/Enterprise</b>	<b>Cow</b>
<b>Title</b>	Assessment of dietary supplementation of vitamin E in animal feed to improve the fertility.
<b>Problem diagnosed</b>	High calving to conception interval and higher incidences of ROP in bovine
<b>Farming situation</b>	Mixed farming
<b>Thematic area</b>	Dairy Nutrient management
<b>Source of technology</b>	IVRI, Izatnagar, Bareilly/NDRI, Karnal
<b>Farmer's Practice</b>	Use of choker and cakes

<b>Details of technologies selected for assessment/refinement</b>	
T <sub>1</sub>	Farmer's practice (Conventional feed)
T <sub>2</sub>	Use of <b>Vitamin E supplementation in feed @ 1000 IU/day/animal</b>
No. of Animals/famers	05/10
Duration	120 days (90 days prepartum + 30 days postpartum)
Critical Input	Vitamin E
Observations to be recorded	<ul style="list-style-type: none"> <li>• Calving to conception interval</li> <li>• Incidences of postpartum uterine problem</li> <li>• Milk yield</li> <li>• Benefit-cost ratio</li> </ul>

#### **OFT:- 09**

Crop/Enterprise	<b>Buffalo</b>
Title	Assessment of non clinical remedies in controlling repeat breeding.
Problem diagnosed	Higher incidences of repeat breeding.
Farming situation	Crop Production and Animal husbandry.
Thematic area	Infertility Management
Source of technology	IVRI, Izatnagar, Bareilly/NDRI, Karnal
Farmer's Practice	Use of wheat bran & common salt.
<b>Details of technologies selected for assessment/refinement</b>	
T <sub>1</sub>	Farmer's practice (use of wheat bran and common salt)
T <sub>2</sub>	GPG protocol (Ovsynch protocol)
No. of Animals / famers	20
Duration	42 days
Critical Input	Non clinical drugs
Observations to be recorded	<ul style="list-style-type: none"> <li>• No of cured animal</li> <li>• Benefit-Cost ratio</li> </ul>

#### **OFT 10**

<b>Crop/ Enterprises</b>	Millets & Spices
<b>Title of OFT</b>	Assessment of millets loaded multigrain flour with spice to combat indigestion
<b>Problem diagnosed</b>	Cut related problemes in rural women
<b>Farming Situation</b>	Irrigated
<b>Production System and thematic area</b>	High nutrient efficiency diet
<b>Farmers Practice</b>	T1:-Consumption of wheat spieces
<b>Details of technology selected for assessment</b>	T2:- 120-150 gm/day for 03 months .

<b>Source of technology</b>	IIMR, ICAR Hyderabad
<b>No. of Farmers</b>	05 females
<b>Critical Inputs</b>	Multigrain flour + spices
<b>Performance indicator</b>	
<b>a) Technical</b>	1. Symptomatic relief as in Constipation flatulence, bloating (% decrease) 2. Nutritional occupancy in Diet, % nutrients provided by multigrain flour with spices 3. Digestibility and palatability
<b>b) Economic</b>	Comparison of market available MG Flour
<b>c) Social</b>	Adoptability of technology.

#### OFT 11

<b>Crop/ Enterprises</b>	Iron fortified supplementary food.
<b>Title of OFT</b>	Assessment of Iron fortified supplementary food on anemic pregnant women
<b>Problem diagnosed</b>	Iron deficiency anemic among pregnant women
<b>Farming Situation</b>	-
<b>Production System and thematic area</b>	High nutrient efficiency diet
<b>Farmers Practice</b>	T1:- Traditional available foods (Chapati/Dal/Veggies/Milk etc)
<b>Details of technology selected for assessment</b>	T2:- Iron rich supplementary food (Moininga+ Spinach +See food etc) 30-50 gm/day for 03 months .
<b>Source of technology</b>	SHUATS, Prayagraj
<b>No. of Farmers</b>	05 females
<b>Critical Inputs</b>	Iron rich supplementary food.
<b>Performance indicator</b>	
<b>a) Technical</b>	1. Hemoglobin Level (Pre and Post) 2. Nutritional occupancy in Diet, % nutrients provided. 3. Digestibility and sensory evaluation
<b>b) Economic</b>	Comparison of market available iron supplementats.
<b>c) Social</b>	Adoptability of technology.

### 3.2 Frontline Demonstrations

#### A. Details of FLDs to be organized -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
<b>Other than oilseed and pulses</b>									
1	Maize Coarse Millets	Decalb- 9108	Varietal demonstration	Use of latest seasoned based hybrid variety	Seed	Kharif 2023-24	2.0	10	1. No. Cob per plant. 2. Grain Yield t/ha. 3. Economics (C:B)
2	Paddy	PS-1692	Weed management	Use of new generation herbicides (Triafamone 20%+ ETHOXYLSULFURON 10% WG)	Chemical herbicides	Kharif-2023	6.0	15	1. No of tillers/ hills. 2. Yield (t/ha). 3. Economics (C:B)
3	Mango	Dashari/Chausa	Integrated Pest Management	Use of Fruit fly traps to manage fruit fly in Mango	Fruit fly traps lures MehthylFuginolm alathion	Zaid- 2023	10.0	20	1.Assessment in quantitative loss in Mango 2. Comparative catch per trap. 3. Yield (qt/ha) 4. Economics (C:B)
4	Paddy	Pusa- 1121 / Pusa-1509	Integrated Disease Management	Use of Trichoderma soil application @ 5 kg/ha + Seed treatment by Tebuconazole 50% + Trifloxystrobin 25% WG	Fungicide	Kharif -2023	4.0	10	1. Yield (qt/ha) 2. Disease incidence 3. Economics (C:B)
5	Potato	Kufrimohan/ Kufribahar/ Chipsona	Integrated Disease Management	Use of Thyfluzamide 24% SC as seed treatment @ 150 ml/ 25 bags + Foliar spray of Femoxadone 16.6% +Cymoxanil 22.1% @ 500 ml/ha	Fungicide	Rabi 2023-24	4.0	10	1. Yield (qt/ha) 2. Disease incidence 3. Economics (C:B)
6	Wheat	DBW-16	Weed Management	Use of latest herbicide in timely sown wheat for reducing the cost of cultivation.	Weedicide (Pinoxaden 5.1% EC @1 Liter/ha + Met Sulfuron - 20 g/ha)	Rabi 2023-24	6.0	15	1. No of weeds/ m <sup>2</sup> . 2. Yield (t/ha). 3. Economics (C:B)
7	Bitter gourd	KashiUrvashi	Machan Cultivation	Machan cultivation with HYV (KashiUrvashi)	Seed	Kharif 2023	400 m <sup>2</sup>	10	1 Yield 2 Net Return 3 C:B Ratio 4 Adoptability 5 Pt. Height 6 No. of Fruit/per Plant
8	Marigold	Marigold variety PusaNarangi	Varietal Evaluation	Demonstration on Marigold cultivation Transplanting of marigold seedling of marigold seedling at spacing 60x45 cm, topping of apical shoot at 15 days interval three times to induce branches, application of DAR + Potash 50 gm each/plant before flowering after flowering	Seed	Rabi 2023	400 m <sup>2</sup>	10	1 Plant height 2 Date of 1 <sup>st</sup> Flowering 3 Date of 50% flowering 4 No. of flowers/plant 5 Net Return 6 C:B Ratio 7 Adoptability
<b>Total</b>							<b>34.8</b>	<b>100</b>	

### FLD on Livestock Enterprises :

Enter-prise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators	Budget required (inRs.) / Technology to be adopted
Prepartum Vitamin E supplementation in feed	Milch animals	10	20	Vitamin E powder	1. Milk yield 2. Postpartum uterine problems 3. Calving to conception interval 4. B:C ratio	15000.00
Imbalanced feeding in milch cattle/ buffalo.	Milch cattle/ Buffalo	30	30	Mineral mixture	1. Milk production 2. Proper heat period. 3. Adoptability. 4. Economics (B:C ratio)	15000.00
<b>Total</b>		<b>40</b>	<b>50</b>			

### FLD on Other Enterprise : Home Science

Sl. No.	Enterprise	Variety/breed/ species/others	No. of farmers/ Farm families	No. of units	Critical inputs	Performance parameters / indicators	Technology to be adopted
	Entrepreneurship development through Home-made soaps	Home made soaps with natural ingredients	20	20	Soap base, glycerin, Coconut Oil, Almond oil, Packaging material packing machine	Efficiency para a) Skin patch tests Economics a) B:C Ratio	Demonstration of preparation of Home made with natural ingredients.
	Drudgery reduction through Sugarcane bud chipper	Sugarcane	15	15	Sugarcane Bud-chipper	Efficiency Resource a) Cardiac Cost b) Time c) Field Economics a) C:B ratio	Reducing drudgery through sugarcane bud chipper
<b>Total</b>			<b>35</b>	<b>35</b>			

### C-FLD under NFSM

Sl. No.	Crop/ Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer/ demonstrate	Parameters identified
1	Mustard (RH-0725/0749)	IPM+INM	New variety, and sulphur nutrition	Seed Elemental Sulphur	Rabi- 2023-24	20	50	i)No. of pods per plant.. ii) Yield (q/ha.) iii) Economics (C:B ratio) iv) Adoptability.

2	Lentil (L-4717)	Varietal demonstration & INM	Bio-fortified and sulphur nutrition	Seed + elemental sulphur	Rabi- 2023-24	10.0	25	i)No. of pods per plant. ii) Yield (q/ha.) iii) Economics (C:B ratio) iv) Adoptability.
3	Green Gram (PusaVirat)	Integrated Crop Management	New variety and sulphur nutrition	Seed elemental sulphur	Zaid 2023-24	10.0	25	i) No. of pods per plant.. ii) Yield (q/ha.) iii) Economics (C:B ratio) iv) Adoptability.
			<b>Total</b>			<b>40.0</b>	<b>100</b>	



**Sponsored Demonstration:**

Crop	Area (ha)	No. of farmers
Wheat, Paddy	12.8	32

**B. Extension and Training activities under FLDs**

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	05	Jan-Dec 2023	230
2	Farmers Training	05	Jan-Dec 2023	80
3	Media coverage	10	Jan-Dec 2023	mass
4	Training for extension functionaries	05	Jan-Dec 2023	50

**C. Details of FLD on Enterprises****(i) Farm Implements**

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators

**(ii) Livestock Enterprises**

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
Imbalanced feeding in milch cattle/ buffalo.	Milch cattle/ Buffalo	30	30	Mineral mixture	1. Milk production 2. Conception rate (%). 3. Adoptability. 4. Economics (C:B)

**3.4 Training (Including the sponsored and FLD training programmes):****A) ON Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	20	-	20	02	-	02	20
Resource Conservation Technologies	02	36		36	04		04	40
Seed production	01	20	-	20	02	-	02	20
Integrated Crop Management	01	20	-	20	02	-	02	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	01	20	-	20	02	-	02	20
<b>b) Fruits</b>								
Training and Pruning	02	36		36	04		04	40
Rejuvenation of old orchards	02	36		36	04		04	40
Plant propagation techniques	01	20	-	20	02	-	02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	03	54	-	54	06	-	06	60
Feed management	01	20	-	20	02	-	02	20
<b>V Home Science/Women empowerment</b>								
Gender mainstreaming through SHGs	01	-	20	20	-	02	02	20
Value addition	01	-	20	20	-	02	02	20
Women and child care	02	-	36	36	-	04	04	40
<b>VI Plant Protection</b>								
Integrated Pest Management	04	72	-	72	08	-	08	80
<b>TOTAL</b>	<b>23</b>	<b>300</b>	<b>72</b>	<b>372</b>	<b>80</b>	<b>08</b>	<b>88</b>	<b>460</b>
<b>(B) RURAL YOUTH</b>								
Small scale processing	1		13	13		2	2	15
Rural Crafts	1		13	13		2	2	15
<b>TOTAL</b>	<b>02</b>		<b>26</b>	<b>26</b>		<b>04</b>	<b>04</b>	<b>30</b>
<b>(C) Extension Personnel</b>								
Household food security	1		15	15		5	5	20
Women and Child care	1		15	15		5	5	20
<b>TOTAL</b>	<b>02</b>		<b>30</b>	<b>30</b>		<b>10</b>	<b>10</b>	<b>40</b>
<b>G. Total</b>	<b>27</b>	<b>300</b>	<b>128</b>	<b>428</b>	<b>80</b>	<b>22</b>	<b>102</b>	<b>530</b>

**B) OFF Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	18	-	18	02	-	02	20
Resource Conservation Technologies	02	36	-	36	04	-	04	40
Seed production	01	18	-	18	02	-	02	20
Integrated Crop Management	04	72	-	72	08	-	08	80
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	03	54	-	54	06	-	06	60
Protective cultivation (Green Houses, Shade Net)	02	36	-	36	04	-	04	40
<b>b) Fruits</b>								
Training and Pruning	03	54	-	54	06	-	06	60
Rejuvenation of old orchards	02	36	-	36	04	-	04	40
<b>c) Plantation crops</b>								
Production and Management technology	01	18	-	18	02	-	02	20
<b>d) Medicinal and Aromatic Plants</b>								
Nursery management	01	18	-	18	02	-	02	20
<b>III Livestock Production and Management</b>								
Dairy Management	01	18	-	18	02	-	02	20
Poultry Management	01	18	-	18	02	-	02	20
Disease Management	05	90	-	90	10	-	10	100
Feed management	05	90	-	90	10	-	10	100
Production of quality animal products								
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	18	20	-	02	02	20
Design and development of low/minimum cost diet	01	-	18	20	-	02	02	20
Designing and development for high nutrient efficiency diet	01	-	18	20	-	02	02	20
Gender mainstreaming through SHGs	02	-	36	36	-	04	04	40
Value addition	01	-	18	20	-	02	02	20
Location specific drudgery reduction technologies	01	-	18	20	-	02	02	20
Women and child care	01	-	18	20	-	02	02	20
Women Empowerment	08		144	144		16	16	160
<b>V Plant Protection</b>								
Integrated Pest Management	11	208	-	208	22	-	22	220
Integrated Disease Management	01	18	-	18	02	-	02	20
<b>TOTAL</b>	<b>60</b>	<b>802</b>	<b>288</b>	<b>1102</b>	<b>88</b>	<b>32</b>	<b>120</b>	<b>1200</b>
<b>(B) RURAL YOUTH</b>								
Seed production	01	12	-	12	03	-	03	15
Production of organic inputs	02	24	-	24	06	-	06	30
Nursery Management of Horticulture crops	01	12	-	12	03	-	03	15
Dairying	01	12	-	12	03	-	03	15
Poultry production	01	12	-	12	03	-	03	15
Medicinal Plant	01	12	-	12	03	-	03	15
<b>TOTAL</b>	<b>7</b>	<b>84</b>		<b>84</b>	<b>21</b>		<b>21</b>	<b>105</b>
<b>(C) Extension Personnel</b>								
Integrated Pest Management	05	74	-	74	26	-	26	100
Integrated Nutrient management	02	36	-	36	04	-	04	40
Rejuvenation of old orchards	01	18	-	18	02	-	02	20
Protected cultivation technology	01	18	-	18	02	-	02	20
Capacity building for ICT application	02	36	-	36	04	-	04	40
Management in farm animals	01	18	-	18	02	-	02	20
Livestock feed and fodder production	01	18	-	18	02	-	02	20
<b>Total</b>	<b>13</b>	<b>218</b>		<b>218</b>	<b>42</b>		<b>42</b>	<b>260</b>
<b>G. Total</b>	<b>80</b>	<b>1104</b>	<b>288</b>	<b>1404</b>	<b>151</b>	<b>32</b>	<b>183</b>	<b>1565</b>

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	-	36	04	-	04	40
Resource Conservation Technologies	04	72	-	72	08	-	08	80
Seed production	02	36	-	36	04	-	04	40
Integrated Crop Management	05	90	-	90	10	-	10	100
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	04	72	-	72	08	-	08	80
Protective cultivation (Green Houses, Shade Net etc.)	02	36	-	36	04	-	04	40
<b>b) Fruits</b>								
Training and Pruning	05	90	-	90	10	-	10	100
Rejuvenation of old orchards	02	72	-	72	08	-	08	80
Plant propagation techniques	01	18	-	18	02	-	02	20
<b>c) Plantation crops</b>								
Production and Management technology	01	18	-	18	02	-	02	20
<b>d) Medicinal and Aromatic Plants</b>								
Nursery management	01	18	-	18	02	-	02	20
<b>III Livestock Production and Management</b>								
Dairy Management	04	72	-	72	08	-	08	80
Poultry Management	01	18	-	18	02	-	02	20
Disease Management	05	90	-	90	10	-	10	100
Feed management	06	108	-	108	12	-	12	120
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	20	20	-	02	02	20
Design and development of low/minimum cost diet	01	-	20	20	-	02	02	20
Designing and development for high nutrient efficiency diet	01	-	20	20	-	02	02	20
Gender mainstreaming through SHGs	02	-	36	36	-	04	04	40
Value addition	03	-	54	54	-	06	06	60
Location specific drudgery reduction technologies	01	-	20	20	-	02	02	20
Women and child care	03	-	54	54	-	06	06	60
Women Empowerment	08	-	144	144	-	16	16	160
<b>V Plant Protection</b>								
Integrated Pest Management	15	270	-	270	30	-	30	300
Integrated Disease Management	01	-	20	20	-	02	02	20
<b>TOTAL</b>	<b>81</b>	<b>1116</b>	<b>388</b>	<b>1504</b>	<b>124</b>	<b>42</b>	<b>166</b>	<b>1660</b>
<b>(B) RURAL YOUTH</b>								
Seed production	01	12	-	12	03	-	03	15
Production of organic inputs	02	24	-	24	06	-	06	30
Nursery Management of Horticulture crops	01	12	-	12	03	-	03	15
Dairying	01	12	-	12	03	-	03	15
Poultry production	01	12	-	12	03	-	03	15
Small scale processing	01	-	13	13	-	02	02	15
Post Harvest Technology	01	-	13	13	-	02	02	15
Medicinal plants	01	-	13	13	-	02	02	15
<b>TOTAL</b>	<b>9</b>	<b>72</b>	<b>39</b>	<b>111</b>	<b>18</b>	<b>6</b>	<b>24</b>	<b>135</b>
<b>(C) Extension Personnel</b>								
Integrated Pest Management	05	74	-	74	26	-	26	100
Integrated Nutrient management	02	36	-	36	04	-	04	40
Rejuvenation of old orchards	01	18	-	18	02	-	02	20
Protected cultivation technology	01	18	-	18	02	-	02	20
Capacity building for ICT application	02	36	-	36	04	-	04	40
Management in farm animals	01	18	-	18	02	-	02	20
Livestock feed and fodder production	01	18	-	18	02	-	02	20
Household food security	01	-	18	18	-	02	02	20
Women and Child care	01	-	18	18	-	02	02	20
<b>Total</b>	<b>15</b>	<b>218</b>	<b>36</b>	<b>254</b>	<b>42</b>	<b>4</b>	<b>46</b>	<b>300</b>
<b>G. TOTAL</b>	<b>105</b>	<b>1406</b>	<b>463</b>	<b>1869</b>	<b>184</b>	<b>52</b>	<b>236</b>	<b>2095</b>

Details of training programmes attached in Annexure –I

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	210	30	240	10	2	12	220	32	252
KisanMela	3	1150	150	800	25	5	30	1175	155	1830
KisanGhosthi	8	1400	150	1550	50	20	70	1450	170	1620
Exhibition	3	1000	300	1300	20	5	25	1020	305	1325
Film Show										
Farmers Seminar	3	25	20	45	4	3	7	29	23	52
Workshop										
Group meetings										
Lectures delivered as resource persons	55	1400	500	1900				1400	500	1900
Newspaper coverage	70									Mass
Radio talks	10									Mass
TV talks	6									Mass
Popular articles	10									Mass
Extension Literature	5									5000
<b>Advisory Services</b>	25									300
Scientific visit to farmers field	150	1000	100	1100	100	25	125	1100	125	1225
Farmers visit to KVK	900									900
Diagnostic visits	50	500	50	550	25	5	30	525	55	580
Exposure visits	10	950	50	1000	-	-	-	950	50	1000
Ex-trainees Sammelan										
Soil health Camp	2									100
Animal Health Camp	2	250	20	270	20	10	30	270	30	300
Agri mobile clinic	2	140	40	200	15	5	20	155	45	200
Soil test campaigns	5	125	20	145	5	-	5	130	25	155
Farm Science Club	1									30
Conveners meet										
Self Help Group	20									500
Conveners meetings										
MahilaMandals	2									40
Conveners meetings										
Celebration of important days (specify)	4									200
Pre Kharif workshop	1	1000	150	1150	30	10	40	1030	160	1200

Pre Rabi workshop	1	1400	160	1460	30	10	40	1430	170	1500
PPVFRA workshop										
Any Other (Specify)										
<b>Total</b>	<b>1353</b>	<b>10550</b>	<b>1740</b>	<b>11710</b>	<b>334</b>	<b>100</b>	<b>434</b>	<b>18805</b>	<b>1845</b>	<b>20209</b>

### 3.5 Target for Production and supply of Technological products SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>OILSEEDS</b>			
	Mustard	RH-749	120
<b>PULSES</b>			
	Green Gram/ Black Gram	Pant Moong-1/Pant Urd-35	40
	Dhencha	PD-1	2 qt.
<b>Total</b>			<b>200</b>

### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>SPICES</b>			
	Chilli,	PusaSadabahar	4000
	Tomato	PED	4000
	Onion	N-53	5000
<b>VEGETABLES</b>			
	Brinjal	KashiSandesh	4000
	Cucurbits	Pusa Naveen, Satputia, Japanese long green, etc	1000
	Cauliflower	PusaAsugi, Snow ball-1	5000
		<b>Total</b>	<b>23000</b>

### Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>				
1				
2				

### LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
	Cattle			
	GOAT			
	SHEEP			
	POULTRY			
	Pig farming			
	FISHERIES			

**a. Literature to be Developed/Published**

**(B) KVK News Letter**

Date of start : January 2023

Number of copies to be published : 3000

**B) Literature developed/published**

S.No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	35
3	News letters	04
4	Training manual all discipline	04
5	Popular article	15
6	Extension literature	20
<b>Total</b>		<b>80</b>

**(C) Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			

**3.7. Success stories/Case studies identified for development as a case - 03**

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) Discussions on Problem with farmers-10
- b) PRA-02
- c) Discussion with line departments-03
- D) Field level observations-20

**Rural Youth**

- a) Discussions on Problem with farmers-07
- b) PRA-02
- c) Discussion with line departments-03
- d) Field level observations-15

**In-service personnel**

- a) Discussion-02
- b) Field level observations-04

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT:**

- i) PRA- 02
- ii) Problem identified from Matrix- 02
- iii) Field level observations- 05
- iv) Farmer group discussions-18
- v) Others if any

**For FLD :**

- xvii) New variety/technology- 04



- xviii) Poor yield at farmers level-07
- xix) Existing cropping system-02
- xx) Others if any-03

### 3.10 Field activities

i. Name of villages identified/adopted with block name (from which year) -

S. No.	Village	Block	Families	No. of survey
1	NaithlaHasanpur	Bulandshahr	10	01
2	Mansukhgarhi	Sikendrabad	10	01
3	Chavli	Bulandshahr	10	01
4	Aulina	Lakhawati	10	01
5	Devli	Bulandshahr	10	01
6	Kahira	Bulandshahr	10	01
7	Malagarh	Bulandshahr	10	01
8	Tajpur	Bulandshahr	10	01

- ii. No. of farm families selected per village :15-20
- iii. No. of survey/PRA conducted :8
- iv. No. of technologies taken to the adopted villages :12
- v. Name of the technologies found suitable by the farmers of the adopted villages:

1. Throughout year green fodder production technology
2. Deworming in farm animals..
3. Use of Mineral mixture for infertility in farm animals
4. Use of beauvariabessiana against termite infestation.
5. Role of importance of optimum moisture during use of granular insecticide
6. Use of Methyl Euginol traps against fruit fly.
9. Drudgery reduction through Sugarcane chipper
10. Food preservation techniques at household level.
11. Use of Double/ Decalb 70-74 variety of Maize for increasing production.
12. Chemical weed control in wheat crop.
13. Timely application of carbofuran against root knot nematode.
14. Food and Nutritional security among rural household.

vi. **Impact (production, income, employment, area/technological–horizontal/vertical)**

### 3.11. Activities of Soil and Water Testing Laboratory: NA

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Agri. Deptt. and Hort. Deptt.	Diagnostic Survey, KisanMela, KisanGosthi, training and Field day
2.	Animal Husbandry Deptt.	Animal health camp, vaccination camp and pashupalakgoshthi
3.	SVBPUA&T, Meerut	KVK Scientist participated in Farmer's fair, cattle show, dog show or gosthi by the University.
4.	IFFCO / KRIBHCO	KVK Scientists participated in training programmes organized by the Deptt. as resource person.
5.	NGO's	KVK Scientists participated in various training programmes organized by them as resource person.
6.	DASP	Special training, demonstration, Field day and

		Gosthi
7.	ATMA	KisanGosthi, Demonstration, Farm School, Group
8.	Lead Bank, Cooperative Banks	KisanGosthi, Krishak club

#### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

S. No.	Programme	Nature of linkage
1	FLD, Goshthi, demonstration and Training	Scientific technology dissemination
2		

#### 4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	Trainings	As a resource person
2	Field Day	As a resource person

#### 4.4 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1		

#### 5.0 Utilization of hostel facilities : NA

S. No.	Programme	No. of days
1		
	<b>Total</b>	

#### 6.0 Convergence with departments :

Sl.No.	Name of organization	Nature of Linkage
1.	Agri. Deptt. and Hort. Deptt.	Diagnostic Survey, KisanMela, KisanGosthi, training and Field day
2.	Animal Husbandry Deptt.	Animal health camp, vaccination camp and pashupalakgoshthi
3.	SVBPUA&T, Meerut	KVK Scientist participated in Farmer's fair, cattle show, dog show or gosthi by the University.
4.	IFFCO / KRIBHCO	KVK Scientists participated in training programmes organized by the Deptt. as resource person.
5.	NGO's	KVK Scientists participated in various training programmes organized by them as resource person.
6.	DASP	Special training, demonstration, Field day and Gosthi
7.	ATMA	KisanGosthi, Demonstration, Farm School, Group
8.	Lead Bank, Cooperative Banks	KisanGosthi, Krishak club

#### 7.0 Feedback of the farmers about the technologies demonstrated and assessed :

S. No	Crop	Feed Back
1	<b>Wheat</b>	Clodinofob + Metsulfuronis quite effective against Phalaris minor and other broad leaves weed.
2	<b>Wheat</b>	Use of Beauveriabassiana is effective and easy in handling
3	<b>Maize</b>	Double variety has been appreciated by farmers in terms of productivity and low incidence of diseases
4	<b>Paddy</b>	New generation herbicide is more effective than earlier.



5	<b>Paddy</b>	Low incidence of root knot disease was observed.;
6	<b>Fodder</b>	Beneficial for animal health and barseem crop is found effective for soil health.
7	<b>Mineral mixture</b>	Reduced the nutritional infertility problem and improvement in milk production and animal health

**8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :**

<b>Discipline</b>	<b>Feed Back</b>
<b>Agronomy</b>	Development of YVM resistant varieties of Urd
	Dose optimization of water soluble fertilizer
	Development of high quality, Maize varieties for late sown condition
	Heat tolerant variety in wheat
<b>Plant protection</b>	Mosaic disease incidence in urd/mung
	Wilt in guava
	White grub infestation in sugarcane
	Fall army worm infestation in maize
	Thrips in Mango
<b>Animal husbandry</b>	Repeat breeding in milch animals
<b>Home Science</b>	Easy availability of drudgery reduction tools.
	Development of crisp and compact nutritional recipies
	Development of food preservation modules

# KVK Bulandshahr

Annexure - I

## Training Programme

### i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
05.02.23	PF	Utilization various pulses and vegetable crops along with spring sugarcane for maintaining soil organic carbon	01	20	-	20	02	-	02	20
03.03.23	PF	Scientific cultivation of coarse millet crops	01	20	-	20	02	-	02	20
11.04.23	PF	Natural farming a new approach for sustaining bio-diversity	01	20	-	20	02	-	02	20
24.05.23	PF	Soil Testing & its use in fertilizer management in Kharif crops	01	20	-	20	02	-	02	20
28.10.23	PF	Chemical weed control measures of timely sown wheat	01	20	-	20	02	-	02	20
<b>Livestock production</b>										
31.01.23	PF/FW	Importance of deworming in farm animals	02	16	02	20	02	-	02	20
15.03.23	PF/FW	Care of farm animals against external parasites in summer season	02	16	02	20	02	-	02	20
11.05.23	PF/ FW	Importance of timed artificial insemination	02	16	02	20	02	-	02	20
10.10.23	PF/FW	Care and management of neonatal calves	02	16	02	20	02	-	02	20
<b>Home Sc.</b>										
13.01.23	PF	Importance of millets in diet and different preparation of Bajra	02		20	20		02	02	20
23.06.23	PF	Boosting immunity with locally available resource in winter	01		20	20		02	02	20
21.09.23	PF	Different vector borne disease identification of symptoms and prevention at household level	01		20	20		02	02	20
14.12.23	PF	Strengthening of SHGs	01		20	20		02	02	20
<b>Plan Protection</b>										
08.02.23	PF	Control of root knot nematodes in tomato, chilli, brinjal crops	01	20	-	20	02	-	02	20
15.05.23	PF	Entomopathogenic nematode an important tool in IPM	01	20	-	20	02	-	02	20
09.08.23	PF	IPM in paddy	01	20	-	20	02	-	02	20
02.11.23	PF	IPM in wheat crop	01	20	-	20	02	-	02	20
<b>Horticulture</b>										
28.01.23	PF	Production technology of Mango increase production	01	20	-	20	02	-	02	20
25.04.23	PF	Use of plastic tray and poly bag for seedling production to generate income	01	20	-	20	02	-	02	20
10.05.23	PF	Use of trellis system in bottlegourd production for higher income	01	20	-	20	02	-	02	20
11.07.23	PF	Scientific cultivation of papaya for income generation and nutritional security	01	20	-	20	02	-	02	20
15.08.23	PF	Raised bed production technology of vegetable crops	01	20	-	20	02	-	02	20
18.11.23	PF	Cultivation of vegetable under low tunnel poly house	01	20	-	20	02	-	02	20

### i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
18.04.23	PF	Techniques of PMDS operation under natural farming	01	20	-	20	02	-	02	20
02.06.23	PF	Scientific method of cultivation basmati rice under direct seeded	01	17	-	17	03	-	03	20
11.06.23	PF	Scientific crop production techniques in	01	20	-	20	02	-	02	20

		basmati rice								
18.06.23	PF	Role of sulphur for improving quantity and quality of Rape seed mustard.	01	20	-	20	02	-	02	20
21.09.23	PF	Organic carbon incorporation in the paddy stubble before soil of wheat	01	17	-	17	03	-	03	20
03.11.23	PF	Integrated weed management technologies for timely sown wheat	01	20	-	20	02	-	02	20
20.11.23	PF	Preparation and maintenance of various Arks for Rabi seasoned crops under natural farming	01	20	-	20	02	-	02	20
28.11.23	PF	Chemical weed control measures of timely sown wheat	01	20	-	20	02	-	02	20
<b>Live Stock Production.</b>										
18.01.23	PF/ FW	Effect of deworming in milch animal	01	16	02	20	02	-	02	20
08.02.23	PF/ FW	Prevention and control of FMD disease	01	16	02	20	02	-	02	20
02.03.23	PF/ FW	Care and management of pregnant animal	01	16	02	20	02	-	02	20
12.04.23	PF/ FW	Repeat breeding: prevention and control	01	16	02	20	02	-	02	20
08.05.23	PF/ FW	Symptoms, prevention and control of H.S. disease	01	16	02	20	02	-	02	20
15.06.23	PF/ FW	Vaccination schedule and Importance of vaccination in farm animals	01	16	02	20	02	-	02	20
10.08.23	PF/ FW	Prevention and control of Retained fetal membrane in farm animals	01	16	02	20	02	-	02	20
13.09.23	PF/ FW	Advantages of deworming in farm animals with respect to animal health and fertility	01	16	02	20	02	-	02	20
05.10.23	PF/FW	Symptoms, Prevention and control of mastitis in milch animals	01	16	02	20	02	-	02	20
03.11.23	PF/ FW	Importance of balanced diet in animal fertility and milk production	01	16	02	20	02	-	02	20
30.11.23	PF/FW	Clean milk production	01	16	02	20	02	-	02	20
15.12.23	PF/ FW	Common reproductive problems in bovine	01	16	02	20	02	-	02	20
<b>Home Sc.</b>										
23.01.23	PF	MahilaAdhyan Kendra, NetajiSubhaschandJayanti	01		20	20		02	02	20
30.01.23	PF	Nutritional benefits of Rabi Vegetables and fruits to boost immunity and different preparation	01		20	20		02	02	20
11.02.23	PF	MahilaAdhyan Kendra, International Science Day	01		20	20		02	02	20
24.02.23	PF	Importance of reducing tokols	01		20	20		02	02	20
08.03.23	PF	MahilaAdhyan Kendra, International Women Day	01		20	20		02	02	20
22.04.23	PF	MahilaAdhyan Kendra, Earth Day	01		20	20		02	02	20
28.04.23	PF	Nutritional benefits of Zaid Vegetables and fruits to boost immunity and different recipies	01		20	20		02	02	20
18.05.23	PF	MahilaAdhyan Kendra, International Labour Day	01		20	20		02	02	20
18.05.23	PF	Importance of millets in human diet and preparation of recipes from Jwar	01		20	20		02	02	20
05.06.23	PF	MahilaAdhyan Kendra- World Environment day	01		20	20		02	02	20
17.07.23	PF	MahilaAdhyan Kendra, International day for justice	01		20	20		02	02	20
1.10.23	PF	MahilaAdhyan Kendra, Old People Day	01		20	20		02	02	20
14.11.23	PF	MahilaAdhyan Kendra, Childern Day	01		20	20		02	02	20
23-12-23	PF	MahilaAdhyan Kendra, KisanSammanDiwas	01		20	20		02	02	20
<b>Plant Protection</b>										
25.01.23	PF	IPM in mango orchard	01	20	-	20	02	-	02	20
16.02.23	PF	IPM in solanaceous vegetables	01	20	-	20	02	-	02	20
08.03.23	PF	IPM in sugarcane	01	20	-	20	02	-	02	20
11.03.23	PF	Different methods of seed and soil treatment	01	20	-	20	02	-	02	20
07.04.23	PF	Use of mobile apps in IPM	01	20	-	20	02	-	02	20
10.06.23	PF	Different methods of seed and soil treatment	01	20	-	20	02	-	02	20
12.06.23	PF	Importance of weather forecasting in IPM	01	20	-	20	02	-	02	20
18.07.23	PF	IPM in Paddy	01	20	-	20	02	-	02	20

30.08.23	PF	Importance of organic plant protection measures in IPM								
20.10.23	PF	Plant protection strategies in potato crop	01	20	-	20	02	-	02	20
25.12.23	PF	IPM in mustard	01	20	-	20	02	-	02	20
08.12.23	PF	Plant protection in vegetable nursery cultivation	01	20	-	20	02	-	02	20
<b>Horticulture</b>										
14.01.23	PF	Production of healthy seedling of brinjal and chilli through low tunnel system	01	20	-	20	02	-	02	20
15.02.23	PF	Scientific cultivation of bitter gourd for higher income	01	20	-	20	02	-	02	20
10.03.23	PF	Scientific farming of cucumber in green house for doubling income	01	20	-	20	02	-	02	20
08.04.23	PF	Plastic mulching for efficient use of weed management in brinjal crop	01	20	-	20	02	-	02	20
26.05.23	PF	Safe handling and ripening of mango	01	20	-	20	02	-	02	20
17.06.23	PF	Intercropping of vegetable with banana for doubling income	01	20	-	20	02	-	02	20
29.07.23	PF	Importance of micro nutrients in fruit crops	01	20	-	20	02	-	02	20
31.08.23	PF	Use of HYV of vegetable crops	01	20	-	20	02	-	02	20
23.09.23	PF	Use of drip irrigation for efficient use of water in tomato/chilly crop	01	20	-	20	02	-	02	20
21.10.23	PF	Water management in Tomato	01	20	-	20	02	-	02	20
09.11.23	PF	Off season of cultivation of cucumber production for maximizing the monetary returns.	01	20	-	20	02	-	02	20
27.12.23	PF	Mulching management in vegetable crops	01	20	-	20	02	-	02	20

### ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Multiple crops	Production of organic input	Techniques of production of input recommended under natural farming	May	05	13	-	13	02	-	02	15
Multiple crops	Production of organic input	Household level production of biopesticides/ Traps	May	05	13	-	13	02	-	02	15
Poultry	Poultry Farming	Backyard poultry farming: A profitable business	May	06	13	-	13	02	-	02	15
Nursery	Nursery management	Seedling production technique through shed net/low tunnel poly house.	January	05	13	-	13	02	-	02	15
Medicinal plants	Production and Management of Technology	Identification and cultivation of medicinal plants	August	05	13	-	13	02	-	02	15
Wheat	Seed production	Seed production techniques of timely and late sown wheat varieties	May	05	13	-	13	02	-	02	15
Dairy	Dairying	Managemental and nutritional methods to reduce the calving to conception interval	Nov	06	13	-	13	02	-	02	15
Craft	Rural Crafts	Handmade Natural Soaps for income generation	September	05		13	13		02	02	15
Craft	Rural Crafts	Mandola Art for income generation	Nov	05		13	13		02	02	15

### iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Off Campus</b>										
11.04.23	Ext. Person	Plastic culture for vegetable production	01	18	-	18	02	-	02	20
18.09.23	Ext. Person	Role of bio-fertilizer in Tomato Cultivation	01	18	-	18	02	-	02	20
12.06.23	Ext. Person	Best utilization of natural resources to mitigate the food demand in future.	01	18	-	18	02	-	02	20
09.09.23	Ext. Person	Application of water soluble fertilizer in Rabi crops.	01	18	-	18	02	-	02	20
01.08.23	Ext. Person	Heat detection methods and Importance of timed artificial insemination to reduce repeat breeding in farm animals	01	16	-	16	04	-	04	20

24.10.23	Ext. Person	Use of latest agro techniques for the RCT in Wheat.	01	18	-	18	02	-	02	20
22.02.23	Ext. Person	Use of mineral mixture and its importance for milch animals	01	18	-	18	02	-	02	20
22.01.23	Ex. Person	Importance of honeybees in agriculture and harmful effects of pesticides on honeybees	01	18	-	18	02	-	02	20
25.03.23	Ex. Person	Importance of organic farming and low pesticide use.	01	18	-	18	02	-	02	20
30.05.23	Ex. Person	Identification of important parasitoides and predators of insect pest affecting Paddy and sugarcane crops.	01	18	-	18	02	-	02	20
16.07.23	Ex. Person	Introduction of IPM technologies	01	18	-	18	02	-	02	20
28.10.23	Ex. Person	New dimensions of employment generation in rural youth.	01	18	-	18	02	-	02	20
12-10-2023	Ex. Person	Preparation of Nutri Rich Thali	01	18	-	18	02	-	02	20
28-11-2023	Ex. Person	Awareness about bio-fortified varieties	01	18	-	18	02	-	02	20
11-12-2023	Ex. Person	Awareness about women rights and laws	01	18	-	18	02	-	02	20

**iv) Sponsored programme**

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
<b>b) Sponsored training programme</b>											
FTT	State Govt.		All discipline of agriculture	02	65	10	75	20	5	25	100



**ACTION PLAN**  
*January – December, 2023*



**KRISHI VIGYAN  
KENDRA  
G. B. NAGAR**

# KRISHI VIGYAN KENDRA, GAUTAM BUDH NAGAR

## ACTION PLAN (January to December, 2023)

### 1. GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail	Website
Krishi Vigyan Kendra, Chhauhas, Dadri, G.B. Nagar	Office	FAX	gbnagarkvk@gmail.com	gautambudhanagar.kvk4.in/
	09968556926	-		

#### 1.2 .a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website
	Office	FAX		
SVPUA&T, Meerut	0121- 2888511	0121- 2888540	deesvpuat2014@gmail.co m	www.svbpmeerut.ac. in

1.2.b. Status of KVK website : Yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : Mass








1.2. d Status of ICT lab at your KVK : Working

#### 1.3. Name of the Sr. Scientist & Head with phone & mobile no.






Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Mayank Kumar Rai	-	09968556926	Mayankrai71@gmail.com

1.4. Year of sanction (as per MOU) : June, 2005

**1.5. Staff Position (as on 1<sup>st</sup>September,2022)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining in centre	Permanent /Temporary	Category (SC/ST /OBC/ Others )	Mobile No.	Email id	Please attach recent photograph
1	Sr. Scientist & Head	Dr. Mayank Kumar Rai	Professor& Head	Entomology	37400-67000	10000	177400	19.11.16	Regular	Others	09968556926	mayankrai71@gmail.com	
2	Subject Matter Specialist	Er. Madhvendra Singh	Asso. Dir. Ext.	Ag. Engg.	37400-67000	9000	181800	20.11.13	Regular	Others	09457363443	singhm1501@gmail.com	
3	Subject Matter Specialist	Dr. Vipin Kumar	Asso. Dir.	Agronomy	37400-67000	9000	161600	25.04.18	Regular	Others	09013389751	drv_kumar1973@rediffmail.com	
4*	Subject Matter Specialist	Smt. Vinita Singh	Asst Prof. / SMS	Home Science	15600-39100	7000	89900	11.07.08	Regular	Others	09717091158	write2vinita1@gmail.com	
5	Subject Matter Specialist	Dr. Sunil Prajapati	SMS/T-6	Horticulture	15600-39100	5400	56100	04.07.22	Regular	Others	09407804830	prajapatisuni14960@gmail.com	
6	Subject Matter Specialist	Dr. Bonika Pant	SMS/T-6	Fisheries Science	15600-39100	5400	56100	07.07.22	Regular	Others	09412890917	bonika09pant@gmail.com	
7	Program Assistant	Sh. Kunwar Ghanshyam	Training Assistant	Animal Husbandry	9300-34800	4800	90300	10.12.18	Regular	OBC	09412120240	Kunwarg2011@gmail.com	



8	Computer Programmer	Sh. AshuArora	Program Assistant	Computer Science	9300-34800	4800	78800	04.03.06	Regular	Others	08010907124	aarora.kvkgbn@yahoo.co.in	
9	Farm Manager	ShRajive Kumar Sirohi	Farm Manager	Seed Since	9300-34800	4600	55200	1.07.22	Regular	OBC	8273443441	rajivsirohi1967@gmail.com	
10	Steno-grapher	Sh. Rakesh Kumar	Jr. Steno	-	9300-34800	4200	60400	06.06.06	Regular	OBC	09319367470	-	
11	Driver	Mohd. Shokin	Driver	-	5200-20200	2400	38100	01.08.17	Regular	OBC	09058541050	-	
12	Supporting staff	Sh. Praduman	Attendant	-	5200-20200	1900	29300	27.02.08	Regular	OBC	09675589243	-	

\* Smt Vinita Singh is on study leave from 09 Oct., 2019 to 08 Oct., 2022

**1.6. Total land with KVK (in ha) : 15.04 ha**

S. No.	Item	Area (ha)
1.	Under Buildings	2.0
2.	Under Demonstration Units	0.03
3.	Under Crops	13.01 ha land is under reclamation (sodic soil)
4.	Horticulture	
5.	Pond	
6.	Others if any	

**1.7. Infrastructural Development:**

**A) Buildings**

S N	Name of building	Source of funding	Stage					Required New	Needs renovation
			Complete			Incomplete			
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR	Year - 2009	510	-				Has been repaired
2.	Farmers Hostel	ICAR	Year - 2009	300	-				needs to be renovated
3.	Staff Quarters (6)	ICAR	Year - 2009	400	-				-do-
4.	Demonstration Units (2) converted into soil testing & Bio-agent production lab	ICAR	Year - 2009	160	-				Has been repaired and 04 new units constructed
5.	Fencing	ICAR	Year - 2009	2000 r.m.	-				Boundary wall has re-constructed
6.	Rain Water harvesting system	RKVY	2022		-				
7.	Threshing floor	ICAR	Year - 2009	300	-				needs to be renovated
8.	Farm godown	ICAR	Year - 2009	60	-				Nil

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	Required replacement
Motor cycle	22.03.2011	-	42322	Working	
Provide New Holland Tractor under CSR fund by Co.	2020	-	89	Working	

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status	Required replacement
<b>Farm Equipments</b>				
Harrow	2006	20625.00	Not working	
Cultivator	2006	11025.00	Not working	
Leveler	2006	5080.00	Working	
Tractor Trolley	2006	88600.00	Working	
Raised Bed Multi Crop Planter	2010	57500.00	Not working	

Bund Maker	2012	9450.00	Working	
Harrow	2022	50404.00	Working	
Rotavator	2022	120000.00	Working	
Pata	2022	14160.00	Working	
Sprayer	2022	11000.00	Working	
Weeder	2022	41493.00	Working	
<b>Office Equipment</b>				
Hp Computer Intel D-90	2006	48500.00	Not working	
UPS 1 KVA	2006	11500.00	Not working	
M 1005 MFP Printer	2006	10000.00	Not proper working	Required new one
Numeric Digital UPS	2007	-	Not working	
LCD Projector	2007	64125.00	Poor condition	Required new one
Samsung CLP-315	2008	9800.00	Not working	-
Laptop (01)	2017	54035.00	Working	-
Finger Print Machine	2017	7903.00	Working	
1.5 ton Blue star AC	2017	51349.00	Not working	
Dell Desktop (03)	2017	141078.00	Working	-
UPS 600 VA	2017	15354.00	Not working	
3.6 KVA Invertor	2019	15812.00	Working	

### 1.8. A). Details of SAC meetings to be conducted in the year

S.No.		Date
1.	Scientific Advisory Committee	July and Dec., 2023

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Crop Production + Dairy
2	Crop Production + Vegetable crops

### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

#### a) Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	Western Plain Zone	Sandy loam and loamy soil texture, canal and tube well irrigation, medium rainfall, sub-tropical climate, rice-wheat crop rotation, crop production based dairy farming system.

#### b) Topography

S. No.	Agro ecological situation	Characteristics
1	AES – I	<b>Soil type</b> - Sandy loam soil <b>Crop rotation</b> - Rice-Wheat, Jawar (fodder) -wheat, Arhar-wheat, Jawar(fodder) -lentil, Vegetables <b>Orchard</b> – Mango, Guava <b>Mixed farming system</b>
2	AES – II	<b>Soil type</b> - Sandy loam, Loam soil <b>Crop rotation</b> - Rice-wheat, Jawar(fodder)-wheat, Arhar-

wheat, Jawar(fodder)-lentil, Vegetables  
**Mixed farming system**  
 Some area water logged

### 2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Sandy loam	Sand percentage medium and water holding capacity medium.	37880
2	Loam	Soil fertility status and water holding capacity is high	100937

### 2.4. Area, Production, and Productivity of major crops cultivated in the district (2020-21)

#### Kharif, 2020

S. No	Crop	Area (ha)	Production (m.t.)	Productivity (q./ha)
A	<b>FIELD CROPS INCLUDING OIL SEEDS AND PULSES</b>			
1	Rice	28568	98900	34.62
2	Maize	290	703	24.25
3	Jawar	3167	2439	7.70
4	Urd	31	9	2.90
5	Moong	18	4	2.22
6	Arhar	481	578	12.10
7	Sesame	53	35	6.60
8	Bajra	1821	3600	19.80
	<b>Total</b>	<b>34429</b>	<b>106268</b>	<b>-</b>

#### Rabi 2020-21

S. No	Crop	Area (ha)	Production (MT.)	Productivity (q./ha)
1	Wheat	45220	152840	33.80
2	Barley	640	2403	37.54
3	Gram	-	-	-
4	Pea	15	18	12.0
5	Lentil	4	3	7.10
6	Toria/Mustard	802	923	11.50

### 2.5. Weather data (2021-22)

S.No.	Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
1	April, 2021	0.00	-	-	-	-
2	May, 2021	4.00	-	-	-	-
3	June, 2021	87.00	-	-	-	-
4	July, 2021	22.00	-	-	-	-
5	August, 2021	92.00	-	-	-	-
6	September, 2021	90.00	-	-	-	-
	<b>Total Kharif</b>	<b>295.00</b>				
7	October, 2021	0.00	-	-	-	-
8	November, 2021	0.00	-	-	-	-
9	December, 2021	-	-	-	-	-
10	January, 2022	-	-	-	-	-

11	February, 2022	-	-	-	-	-
12	March, 2022	-	-	-	-	-
	<b>Total Rabi</b>	-				
	<b>Total (Kharif + Rabi )</b>	<b>295.00</b>				

### 3.8. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	15196	121568	8.00
<i>Indigenous</i>	16398	106587	5.50
<b>Buffalo</b>	272847	2319199	7.30
<b>Sheep</b>		-	
<i>Crossbred</i>	3770	4713	1.20
<i>Indigenous</i>	898	674	0.75
<b>Goats</b>	18176	327168	18.0
<b>Pigs</b>			
<i>Crossbred</i>	808	44440	51.0
<i>Indigenous</i>	7369	359788	44.0
<b>Rabbits</b>	-		
<b>Poultry</b>			
<i>Improved</i>	22233	24456	1.20
<b>Category</b>		<b>Production (q.)</b>	<b>Productivity</b>
Inland	-	3735 q	25/ha/year

### 2.7 Details of Operational area / Villages

Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Dadri	Dadri	JunpatChaulaus Naibasti Saithali Veerapura Nagla-nainsukh Khandera Roopwas	Rice Wheat Jawar Mustard Lentil Vegetables Orchards Dairy	<ul style="list-style-type: none"> <li>Lower yield of cereals due to imbalanced use of fertilizer and heavy weed infestations.</li> <li>In pulses pod borer's problem and wild cows.</li> <li>In oilseeds nutritional problems (Sulphur deficiency)</li> <li>Low yield of cereals due to old variety.</li> <li>Wilt in guava orchard</li> <li>Alternate bearing &amp; pest problem in mango orchard</li> <li>In milch animals repeat breeding</li> <li>Worm's infestation</li> </ul>	<ul style="list-style-type: none"> <li>IPNM</li> <li>IWM</li> <li>IPM</li> <li>Guava orchard management with respect to wilt.</li> <li>Varietal evaluation</li> <li>Mango orchard management</li> <li>Nursery production of vegetable crops</li> <li>Balanced animal feeding</li> <li>De-worming</li> </ul>

Sadar	Bisrakh	Duryai Thapkheda Dujana	Rice Wheat Jawar Mustard Lentil Vegetables Orchards Dairy	<ul style="list-style-type: none"> <li>• Lower yield of cereals due to imbalanced use of fertilizer and heavy weed infestations.</li> <li>• In pulses pod borer's problem and wild cows.</li> <li>• In oilseeds nutritional problems (Sulphur deficiency)</li> <li>• Wilt in guava orchard</li> <li>• Alternate bearing &amp; pest problem in mango orchard</li> <li>• In milch animals repeat breeding</li> <li>• Worm's infestation</li> </ul>	<ul style="list-style-type: none"> <li>• IPNM</li> <li>• IWM</li> <li>• IPM</li> <li>• Guava orchard management with respect to wilt.</li> <li>• Mango orchard management</li> <li>• Organic vegetable production</li> <li>• Balanced animal feeding</li> <li>• De-worming</li> </ul>
Jewar	Jewar	Gopalpur Chakveerampur Veerampur Alalpur Dhansia Jhuppa Parsol Bhatta Chirsee BagpurBilaspur	Rice Wheat Jawar Mustard Lentil Vegetables Orchards Dairy	<ul style="list-style-type: none"> <li>• Lower yield of cereals due to imbalanced use of fertilizer and heavy weed infestations.</li> <li>• In pulses pod borer's problem and wild cows.</li> <li>• In oilseeds nutritional problems (Sulphur deficiency)</li> <li>• Wilt in guava orchard</li> <li>• Alternate bearing &amp; pest problem in mango orchard</li> <li>• In milch animals repeat breeding</li> <li>• Worm's infestation</li> </ul>	<ul style="list-style-type: none"> <li>• IPNM</li> <li>• IWM</li> <li>• IPM</li> <li>• Inclusion of flower cultivation in farming system to promote cut flowers business</li> <li>• Mango orchard management</li> <li>• Balanced animal feeding</li> <li>• De-worming</li> </ul>

## 2.8 Priority thrust areas

Crop/Enterprise	Thrust area
Rice/Wheat	Integrated Plant Nutrient Management in Rice-wheat cropping.
Rice/Wheat	Integrated Weed Management in Rice-wheat cropping.
Rice/Wheat	Increase area under Kharif and Rabi cereals.
Pulse	Increase area under the kharif and rabi pulses.
Fodder	Round the year green fodder production
Cereals	Integrated Pest Management in crops.
Guava	Rejuvenation of old mango orchards and mgt. of guava orchards.
Vegetables	Organic Vegetables farming
Flower	Inclusion of flower cultivation in farming system to promote

	business of cut flowers
Dairy	To reduce repeat breeding in buffaloes & cows and calf mortality
Poultry	Promotion of Backyard poultry.
Horticulture	Introduction of aromatic & medicine plants.
Kitchen Garden	Nutritional kitchen gardening.
Value Addition	Value addition in fruits and vegetables.
Farm Machinery	Popularization of newly developed agricultural implements

### 3. TECHNICAL PROGRAMME

#### A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
<b>10</b>	<b>45</b>	<b>38.2 + 25 animals</b>	<b>148</b>

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
<b>103</b>	<b>1860</b>	<b>870</b>	<b>9730</b>

Seed Production (q)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
<b>200</b>	<b>20200</b>	<b>-</b>	<b>1500</b>	<b>1000</b>

Quality seed to be distributed (q)	No. of saplings to be distributed (Nos.)	No. of fingerlings to be distributed (Nos.)	No. of livestock & poultry strains to be distributed (Nos.)
(10)	(11)	(12)	(13)
<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

## B. Abstract of interventions to be undertaken

S N	Thrust area	Crop/ Enter- prise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Exten- sion activities	Supply of seeds, planting materials etc.
<b>Crop Production</b>									
1	Weed mgt.	Paddy	High infestation of weeds	-	Use of Phenoxulum 21.7% SC @37.5 ml/acre	Weed mgt. in transplanted paddy	-	Gosthi, Field day, Field visits	Weedicide
2	Soil Health	Paddy	Unavailability of plant nutrient high pH of soil	Assessment of water soluble fertilizers on growth and yield of basmati	Use of Soil amendment Gypsum+ Stigma sterol campestral	Balance use of fertilizer in Basmati paddy	Soil health management	Gosthi, Field day, Field visits	Gypsum+ Stigma sterol campestral
3	Disease Management	Basmati Paddy	High incidence of Sheath blight	Assessment of Different fungicide for Sheath blight mgt.	Control of BLB in basmati paddy through Fungicide and Anti-biotic	Disease management in Basmati Paddy	Nutrient & Water management in Basmati Paddy	Gosthi, Field day, Field visits	Azoxy-Srtobine+ Tabuconazol Hexaconazole + Valedamycine
4	Weed mgt.	Wheat	High infestation of weed	-	Phenoxadone (Clodinofob + Matribuzine	-	-	Gosthi, Field day,	Weedicide
<b>Horticulture</b>									
5	Varietal evaluation	Bottle gourd	Lower yield due to traditional cultivation	-	Demonstration of bower system with high yielding variety	Installation practice of bower system in bottle gourd	-	Gosthi, Field day, Field visits	Improved bottle gourd varieties (Summer Prolific long/PusaMeghdoot )+ bamboo poles+ Jute rope
6.		Cabbage	Poor yield due to routine cultivation of local varieties	-	Introducing high yielding variety of cabbage for higher yield and net return	Improved production technique in Cabbage		Gosthi, Field day, Field visits	Improved cabbage varieties (PusaMukta/ Golden Acre )
7.	Improved production technique	Chilli	Poor yield due to cultivation of local varieties	-	Introducing high yielding and stress tolerance varieties	Improved production technique in chilli	Flower and fruit drop management practices	Gosthi, Field day, Field visits	Improved chilli varieties (Punjab Lal/ Pant C-1)
8	Integrated Nutrient Management	Cauliflower	Lower yield due to Boron deficiency	Effect of boron application on yield and curd quality of cauliflower	-	Importance of micronutrient in curd formation	Role of micronutrient in cole crops	Gosthi, Field day, Field visits	Boron+ Seeds varieties
		Brinjal	Lower yield due to lack of INM practices	Effect of Integrated Nutrient Management on fruit yield of brinjal	-	Role of Integrated Nutrient Management		Gosthi, Field day, Field visits	Boron+ Seeds varieties



<b>Livestock Prodn. &amp; mgt.</b>									
9	Fertility Mgt.	Dairy	High incidence of infertility in milch animals.	-	Feeding of mineral mixture and deworming to enhance milk production and regular normal fertility	Infertility mgt. in milch animals.	-	Gosthi, Field visits	Mineral Mixture & Dewormer
10	Disease Mgt.	Dairy	High incidence of mastitis disease in milch animals.	-	Mastitis disease control through Masti-out plus kit.	Mastitis in milch animal: Symptoms and its control.	-	Gosthi, Field visits, awareness campaign	Masti out plus kit
11	Feed & fodder mgt.	Dairy	Poor quality feed and fodder to dairy animals	-	Demonstration of HY Berseem variety for Green fodder production	Importance of green fodder in animal feed.	-	Gosti, Group meeting.	Seed
12	Nutritional food security	Poultry farming	Poor socio-economic status malnutrition	Enhancing socio-economic status and coping malnutrition (Protein deficiency)	-	Back yard poultry production Technology	-	Gosthi, Field visits	20 chicks/family, Supplementary feed, health care
<b>Agriculture Engg.</b>									
13	Soil & water conservation	Rice	Improper puddling cause uneven plant stand	To assess the effect of puddling on plant stand and crop growth	Use of rotator as peddler for paddy	Importance and uses of rotator	-	Field day / Gosthi	Cost of puddling of the demo. Area
14	RCT	Rice	Uneven soil causing low irrigation water efficiency		Use of laser leveler to level the field.	Importance of land leveling through Laser land leveler	Importance of laser land leveling..	Gosthi, Field visits, awareness campaign	Laser leveler on hired basis
15	Farm machinery & implements	Wheat	Less germination and low yield under broadcasting sowing	Assessment of different wheat sowing implements after harvesting of paddy.	Use of seed drill	Reduction in sowing wheat by using happy seeder.	Use of seed drill and happy seeder for wheat sowing.	Gosti, Field visits, awareness campaign	Seed and Seed drill on hired basis
<b>Fisheries</b>									
16	Composite fish Culture	Fishes	Low yield due to mono culture	Evaluation of composite aquaculture technology	-	Composite Aquaculture: A gateway to better profits	An introduction to composite fish culture	Gosti, Field visits, awareness campaign	Fish seed

17	Fish feed management	Fishes	Less net return due to high Feed cost	Use of vermi-compost as feed and fertilizer in fish ponds	Supplementing Vitamin, Mineral mixture in Fish feed	Vermi-compost production technology and uses in aquaculture  2. Feed management in aquaculture	Feed and nutrient management in aquaculture	Gosti, Field visits, awareness campaign	Vermi-compost Vitamin+ Mineral mixture
18	Fish processing and value addition	Fishes	Low income	-	Development of edible fish products	Fish products: Generating new sources of employment	-	Gosti, Field visits, awareness campaign	Fish + Other ingredient

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
ICM										
INM	2				2					4
IPM	1									1
Value addition										
RCT	2									2
Nutritional security										
<b>TOTAL</b>	<b>5</b>				<b>2</b>					<b>7</b>

#### A.2. Abstract on the number of technologies to be refined in respect of crops

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi culture	Fisheries	TOTAL
Nutritional food security		1					2	3
Drudgery reduction								
<b>TOTAL</b>		<b>1</b>					<b>2</b>	<b>3</b>

#### A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises

**B. Details of On Farm Trial (Based on soil test analysis)****OFT-1 (Crop Production) (Kharif 2023)**

Particulars	Contents
<b>Crop</b>	Paddy
<b>Title</b>	Assessment of water soluble fertilizers and on growth and yield of basmati rice
<b>Problem diagnosed</b>	Less net return due to high cost of fertilizers.
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> –Farmers practice (120:60:40 kg/ha NPK) T <sub>2</sub> – 75% of RFD of basal + Gypsum+ Stigma sterol campestrol (10 kg /ha) +1 spray of NPK of 0:52:34 @ 5kg/ha
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Gypsum+ Stigma sterol campestrol (Brand GR) =20 kg NPK (0:52:34) = 10 kg
<b>Production system</b>	Rice-Wheat
<b>Source of technology</b>	IISS Bhopal
<b>Total Cost</b>	<b>₹3000.00</b>
<b>Observation to be recorded</b>	Yield (Kg/ha), Test weight, Cost of production
<b>Reaction of the farmers</b>	-

**OFT-2 (Crop Production) (Rabi 2023-24)**

Particulars	Contents
<b>Crop</b>	Wheat
<b>Title</b>	Assessment of water soluble &nano fertilizers on wheat yield and cost of production.
<b>Problem diagnosed</b>	High cost of production and low yield
<b>Micro farming situation</b>	Rice-wheat Irrigated system
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmer’s practice(NPK- 150:60:0) T <sub>2</sub> – 75% of RFD of basal + 2 spray of Nano N@ 500 ml/Acre/spray
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Water soluble fertilizers (NPK – 18:18:18/ 19:19:19) & Nano fertilizer of N
<b>Production system</b>	Paddy-Wheat
<b>Source of technology</b>	IISS, Bhopal
<b>Total Cost</b>	<b>₹3000.00</b>
<b>Observation to be recorded</b>	Yield (Q/ha), Duration, Test weight (g) and economics of crop
<b>Reaction of the farmers</b>	-

**OFT-3 (Plant Protection)**

Particulars	Contents
Crop/Enterprise	Paddy
Title	<b>Assessment of different fungicide for sheath blight control</b>
Problem diagnosed	Low yield and poor quality of grain due to high incidence of sheath blight
Farming situation	Irrigated
Thematic area	Disease management
Details of technology identified for solution	T <sub>1</sub> – Farmer's practice (Foliar application of Carbandazim) T <sub>2</sub> – Azoxystrobin + Tabuconazole
No. of farmers	05
Replications	05
Critical inputs	Azoxystrobin , Tabuconazole
Source of technology	SVPUAT
Total Cost	<b>4000.00</b>
Observation to be recorded	Yield (Q/ha), Disease score, Test weight (g) and economics of crop

**OFT-4 (Horticulture)**

Particulars	Contents
Crop/Enterprise	Cauliflower
Title	<b>Effect of boron application on yield and curd quality of cauliflower</b>
Problem diagnosed	Lower yield due to Boron deficiency
Farming situation	Irrigated
Thematic area	Nutrient management
Details of technology identified for solution	T <sub>1</sub> – Farmer's practice (No application boron ) T <sub>2</sub> – Boron (micro-nutrient)
No. of farmers	03
Critical inputs	Boron
Production system	Tomato-Cabbage
Source of technology	ICAR New Delhi
Total Cost	<b>₹4000.00</b>
Observation to be recorded	<ul style="list-style-type: none"> <li>• Curd formation (No of days taken for first curd formation)</li> <li>• Curd colour</li> <li>• Curd weight</li> <li>• Yield economics of crop</li> </ul>
Reaction of the farmers	-

**OFT-5 (Horticulture)**

Particulars	Contents
Crop/Enterprise	Brinjal
Title	Effect of Integrated Nutrient Management on fruit yield of brinjal
Problem diagnosed	Lower yield due to lack of INM practices
Farming situation	Irrigated

<b>Thematic area</b>	Integrated nutrient management
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmer’s practice (use of only inorganic source of nutrient ) T <sub>2</sub> – Organic+ Inorganic sources of nutrient
<b>No. of farmers</b>	03
<b>Critical inputs</b>	Organic (FYM/Vermi-compost)+ fertilizers
<b>Production system</b>	Tomato-Brinjal
<b>Source of technology</b>	ICAR, New Delhi
<b>Total Cost</b>	<b>₹4000.00</b>
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Fruit yield per plant (kg)</li> <li>• Fruit yield (ha.<sup>-1</sup>)</li> <li>• Yield economics of crop</li> </ul>
<b>Reaction of the farmers</b>	-

#### OFT-6 (Animal Husbandry)

<b>Particulars</b>	<b>Contents</b>
<b>Crop/Enterprise</b>	Poultry
<b>Title</b>	<b>Enhancing socio-economic status and coping malnutrition (Protein deficiency)</b>
<b>Problem diagnosed</b>	Poor socio-economic status malnutrition
<b>Farming situation</b>	Poultry
<b>Thematic area</b>	Poultry management/ Nutritional food security
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmer’s practice (Use of local breed, no supplementary feeding) T <sub>2</sub> – Use of dual purpose breed and supplementary feeding (30 gm feed/day/bird)
<b>No. of farmers</b>	10
<b>Critical inputs</b>	20 chicks/family, Supplementary feed, health care
<b>Production system</b>	Income generation
<b>Source of technology</b>	CARI, Izzatnagar, Bly
<b>Total Cost</b>	<b>10,000.00</b>
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Annual egg production</li> <li>• Part time egg production</li> <li>• Body wt. at various stage</li> <li>• Mortality pattern</li> <li>• Immuno-competency <ul style="list-style-type: none"> <li>• Domestic consumption pattern of egg and chicken meat.</li> <li>• No. of birds sold.</li> </ul> </li> </ul>
<b>Reaction of the farmers</b>	-

#### OFT-7 (Agriculture Engineering) (Kharif 2023)

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	To assess the effect of Rotavator puddling in grain yield of rice
<b>Problem diagnosed</b>	Low water availability in paddy field due to improper puddling.
<b>Farming situation</b>	Irrigated

<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmers practice (Transplanting of paddy after puddling by cultivator) T <sub>2</sub> – Transplanting of paddy after use of rotavator.
<b>No. of farmers</b>	05 (Plot size -800 m <sup>2</sup> /treatment)
<b>Replications</b>	05
<b>Critical inputs</b>	Rotavator(on hired basis) and seed
<b>Production system</b>	Rice – wheat
<b>Source of technology</b>	IARI, Pusa, New Delhi
<b>Total Cost</b>	5000.00
<b>Observation to be recorded</b>	No. of weeds/m <sup>2</sup> , yield/ha, BC ratio.
<b>Reaction of the farmers</b>	-

#### OFT-8 (Agriculture Engineering)(Rabi 2023-24)

Particulars	Contents
Crop/Enterprises	Crop residue management for Wheat sowing
<b>Title</b>	Assessment of residue management for Wheat sowing under combined harvested paddy field
<b>Problem diagnosed</b>	Low yield of wheat due to late sowing after paddy harvesting
<b>Farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmers practice (Broadcasting after harrowing and tillering) T <sub>2</sub> – Sowing through seed drill after mulcher one time + foliar application of decomposer + 1 time rotavator
<b>No. of farmers</b>	03 (Plot size -2000 m <sup>2</sup> /treatment)
<b>Replications</b>	03
<b>Critical inputs</b>	Seed Drill (on hired basis with tractor), Happy Seeder and seed
<b>Production system</b>	Paddy - wheat
<b>Source of technology</b>	PAU Ludhiyana
<b>Total Cost</b>	5000.00
<b>Observation to be recorded</b>	Yield/ha, BC ratio.
<b>Reaction of the farmers</b>	-

#### OFT-9 (Fisheries)

Particulars	Contents
Crop/Enterprises	Fish
<b>Title</b>	Evaluation of composite aquaculture technology
<b>Problem diagnosed</b>	Low yield of fish in culture ponds/ extensive aquaculture
<b>Farming situation</b>	Irrigated as well as Rainfed
<b>Details of technology</b>	T <sub>1</sub> : Farmers practice of cultivating 1-3 fish species

<b>identified for solution</b>	T <sub>2</sub> : Catla: Silver Carp -20:15 (35%)+ Rohu: Grass Carp- 25:10 (35%) + Mrigal/ Nain: Common Carp- 15:15 (30%)
<b>No. of farmers</b>	03
<b>Critical inputs</b>	Fish fries/ fingerlings+ Feed
<b>Production system</b>	Fish
<b>Source of technology</b>	ICAR
<b>Total Cost</b>	15000.00
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Fish production</li> <li>• Economic Benefit to the farmer in terms of cost</li> </ul>
<b>Expected Outcome</b>	<ul style="list-style-type: none"> <li>• Increase in fish production in the culture ponds as all the water columns <i>i.e.</i> surface, column and bottom will be utilized.</li> </ul>

#### OFT-10 (Fisheries)

<b>Particulars</b>	<b>Contents</b>
Crop/Enterprises	Fish
<b>Title</b>	Vermi-compost as feed and bio-fertilizer for Fish ponds
<b>Problem diagnosed</b>	Less net return due to high feed cost
<b>Farming situation</b>	Irrigated as well as Rainfed
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmer's practice( Conventional Feed +Cow dung/ Chemicals) T <sub>2</sub> : Vermi compost as feed & fertilizer @ 150kg/ acre
<b>No. of farmers</b>	03
<b>Critical inputs</b>	Vermi compost
<b>Production system</b>	Fish
<b>Source of technology</b>	ICAR
<b>Total Cost</b>	5000.00
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Fish production</li> <li>• Water quality parameters</li> <li>• Economics</li> </ul>
<b>Expected Outcome</b>	Reduction in feed and fertilizer cost, Natural Food production Better fish production

### 3.2 Frontline Demonstrations

#### A. Details of FLDs to be organized (Based on soil test analysis)

S N	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demon	Parameters identified
<b>Crop Production</b>									
1	Paddy	PB-1121	Weed mgt.	Phenoxulun 21.7% SC @ 37.5 ml/Acre	Phenoxulun 21.7% SC	Kharif 2023	6.0	15	No. of weeds/m <sup>2</sup> , yield
2	Paddy	PB-1692	Varietal evaluation	Introducing New high yielding disease resistant variety of basmati rice for higher yield and net return.	Seed 60 kg (PB-1692)	Kharif 2023	4.0	10	Tillers/m <sup>2</sup> , 1000 grain wt., yield/ha.
3	Paddy	PB-1121	Soil Health	Use of Soil amendment Gypsum+ Stigma sterol campestral	Gypsum+ Stigma sterol campestral (Brand GR)@ 10/ha	Kharif 2023	4.0	10	Tillers/m <sup>2</sup> , 1000 grain wt., yield/ha.
4	Wheat	DBW-2967/3086/303/187etc.	Weed mgt.	Phenoxodone (Clodinfob 9% + Matribuzine 20% @ 240 g/acre)	Weedicide	Rabi 2023-24	4.0	10	No. of weeds/m <sup>2</sup> , yield
<b>Plant protection</b>									
5	Paddy	PB-1121	Disease Management	Control of BLB in basmati paddy through Fungicide and Anti-biotic	Hexa-conazole& Valadamy-cine	Kharif 2023	4.0	10	% Disease Incidence yield/ha
<b>Horticulture</b>									
6	Bottle gourd	Summer Prolific long /Pusa Meghdoot	Bower system	Demonstration of Bower system with high yielding variety	Improved Varieties+ bamboo poles	Zaid 2023	2.0	10	Varietal adoptability, Yield performance
7	Chilli	Punjab Lal/Pant C-1	Varietal evaluation	Introducing high yielding and stress tolerance varieties	Improved Varieties	Kharif 2023	2.0	10	Varietal adoptability, Yield economics
8	Cabbage	Pusa Mukta/Golden Acre	Varietal evaluation	Introducing high yielding variety of cabbage for higher yield and net return	Improved Varieties	Rabi 2023-24	2.0	10	Yield performance and economics
<b>Total</b>							<b>28.0</b>	<b>85</b>	



### Sponsored Demonstration -

S.No.	Crop	Area (ha)	No. of farmers

### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	14	Jan – Dec 2023	150
2	Farmers Training	15	Jan – Dec 2023	240
3	Media coverage	02	Jan – Dec 2023	Mass
4	Training for extension functionaries	04	Jan – Dec 2023	80

### C. Details of FLD on Enterprises

#### (i) Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters /indicators
Laser leveler	Paddy	Kharif, 2023	10	4.0	Laser leveler on hired basis	Yield/ha, C:B ratio
Seed Drill	Wheat	Rabi 2023-24	10	4.0	Seed Drill on hired basis and seed	Yield/ha, C:B ratio

#### (ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. Etc.	Critical inputs	Performance parameters / indicators
<ul style="list-style-type: none"> <li>For controlling mastitis disease use mastiout plus kit</li> </ul>					
Dairy	Buffalo (Murrah)	15	15	Mastiout plus kit	Disease infestation, No.of cured animals
<ul style="list-style-type: none"> <li>Feeding of mineral mixture and deworming to enhance milk production and regular normal fertility (60 g/day/animal and dewormer, 2-3 times in a year)</li> </ul>					
Dairy	Buffalo (Murrah)	10	10	Mineral mixture and dewormer	No. of cured animals

### Livestock – Fodder production demo

Crop	Thematic area	Technology for demonstration	Critical input	Season and Year	Area (ha)	No. of farmers /demonstrators	Parameter indicator
Barseem	Fodder	To increase yield	30 kg	Rabi	1.0	10	Green

(Maximum fodder production)	production	through high yielding Variety – BL-10, JB-1, Mescavi or as per availability in the market	seed	2023-24			fodder yield
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**(iii) Fisheries**

Enterprises	Thematic area	Technology for demonstration	Critical input	Area (ha)	No. of farmers /demonstrations	Parameter indicator
Fish	Fish feed Management	Supplementing Vitamin, Mineral mixture in fish feed	Vitamin-Mineral Mixture@ 5kg /Demo	1.2	03	Fish health & Behavior Fish production
Fish	Fish Processing and Value addition	Development of marketable fish products	Fish and other ingredients	-	05	Shelf life Economic analysis
<b>Total</b>				<b>1.2</b>	<b>08</b>	

### 3.3 Training (Including the sponsored and FLD training programmes):

#### C) ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		M	Fe	T	M	Fe	T	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	1	18	-	18	2	-	2	20
Resource Conservation Technologies	1	18	-	18	2	-	2	20
Cropping Systems	1	18	-	18	2	-	2	20
Crop Diversification	1	18	-	18	2	-	2	20
Integrated Crop Management	1	18	-	18	2	-	2	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	5	90	-	90	10	-	10	100
<b>III Livestock Production and Management</b>								
Dairy Management	1	18	-	18	2	-	2	20
Disease Management	2	36	-	36	4	-	4	40
Production of quality animal products	1	18	-	18	2	-	2	20
<b>IV Agril. Engineering</b>								
Repair and maintenance of farm machinery and implements	4	72	-	72	8	-	8	80
<b>V Fisheries</b>								
Carp breeding and hatchery management	1	18	-	18	2	-	2	20
Carp fry and fingerling rearing	1	18	-	18	2	-	2	20
Composite fish culture	2	36	-	36	4	-	4	40
Breeding and culture of ornamental fishes	1	18	-	18	2	-	2	20
<b>VI Others (Pl. Specify)</b>								
Natural Farming	1	18	-	18	2	-	2	20
<b>TOTAL</b>	<b>23</b>	<b>414</b>	<b>-</b>	<b>414</b>	<b>46</b>	<b>-</b>	<b>46</b>	<b>460</b>
<b>(B) RURAL YOUTH</b>								
Production of organic inputs	3	24	-	24	6	-	6	30
Protected cultivation of vegetable crops	2	16	-	16	4	-	4	20
Repair and maintenance of farm machinery and implements	2	16	-	16	4	-	4	20
Nursery Management of Horticulture crops	1	8	-	8	2	-	2	10
Dairying	1	8	-	8	2	-	2	10
Poultry production	1	8	-	8	2	-	2	10
Ornamental fisheries	1	8	-	8	2	-	2	10
Fish harvest and processing technology	1	8	-	8	2	-	2	10
<b>TOTAL</b>	<b>12</b>	<b>96</b>	<b>-</b>	<b>96</b>	<b>24</b>	<b>-</b>	<b>24</b>	<b>120</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	1	15	-	15	-	-	-	15
Integrated Nutrient management	2	30	-	30	-	-	-	30
Care and maintenance of farm machinery and implements	3	45	-	45	-	-	-	45
Management in farm animals	3	45	-	45	-	-	-	45

Livestock feed and fodder production	3	45	-	45	-	-	-	45
Production and use of organic inputs	2	30	-	30	-	-	-	30
Soil health	1	15	-	15	-	-	-	15
Integrated farming	1	15	-	15	-	-	-	15
<b>TOTAL</b>	<b>16</b>	<b>240</b>	<b>-</b>	<b>240</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>240</b>
<b>G. Total</b>	<b>51</b>	<b>750</b>	<b>-</b>	<b>750</b>	<b>70</b>	<b>-</b>	<b>70</b>	<b>820</b>

#### D) OFF Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	2	36	-	36	4	-	4	40
Resource Conservation Technologies	1	18	-	18	2	-	2	20
Cropping Systems	1	18	-	18	2	-	2	20
Crop Diversification	7	126	-	126	14	-	14	140
Production of organic inputs	1	18	-	18	2	-	2	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	2	36	-	36	4	-	4	40
Off-season vegetables	1	18	-	18	2	-	2	20
Nursery raising	1	18	-	18	2	-	2	20
Export potential vegetables	1	18	-	18	2	-	2	20
Protective cultivation (Green Houses, Shade Net etc.)	2	36	-	36	4	-	4	40
<b>III Livestock Production and Management</b>								
Dairy Management	6	108	-	108	12	-	12	120
Disease Management	7	126	-	126	14	-	14	140
Production of quality animal products	1	18	-	18	2	-	2	20
<b>IV Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	3	54	-	54	6	-	6	60
Repair and maintenance of farm machinery and implements	7	126	-	126	14	-	14	140
Post Harvest Technology	1	18	-	18	2	-	2	20
<b>V Fisheries</b>								
Integrated fish farming	2	36	-	36	4	-	4	40
Carp breeding and hatchery management	1	18	-	18	2	-	2	20
Carp fry and fingerling rearing	2	36	-	36	4	-	4	40
Composite fish culture	2	36	-	36	4	-	4	40

Breeding and culture of ornamental fishes	1	18	-	18	2	-	2	20
<b>TOTAL</b>	<b>52</b>	<b>936</b>	<b>-</b>	<b>936</b>	<b>104</b>	<b>-</b>	<b>104</b>	<b>1040</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	M	Fe	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	3	54	-	54	6	-	6	60
Resource Conservation Technologies	2	36	-	36	4	-	4	40
Cropping Systems	2	36	-	36	4	-	4	40
Crop Diversification	8	144	-	144	16	-	16	160
Integrated Crop Management	1	18	-	18	2	-	2	20
Production of organic inputs	1	18	-	18	2	-	2	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	7	126	-	126	14	-	14	140
Off-season vegetables	1	18	-	18	2	-	2	20
Nursery raising	1	18	-	18	2	-	2	20
Export potential vegetables	1	18	-	18	2	-	2	20
Protective cultivation (Green Houses, Shade Net etc.)	2	36	-	36	4	-	4	40
<b>III Livestock Production and Mgt.</b>								
Dairy Management	7	126	-	126	14	-	14	140
Disease Management	9	162	-	162	18	-	18	180
Production of quality animal products	2	36	-	36	4	-	4	40
<b>IV Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	3	54	-	54	6	-	6	60
Repair and maintenance of farm machinery and implements	11	198	-	198	22	-	22	220
Post Harvest Technology	1	18	-	18	2	-	2	20
<b>V Fisheries</b>								
Integrated fish farming	2	36	-	36	4	-	4	40
Carp breeding and hatchery management	2	36	-	36	4	-	4	40
Carp fry and fingerling rearing	3	54	-	54	6	-	6	60
Composite fish culture	4	72	-	72	8	-	8	80
Breeding and culture of ornamental fishes	2	36	-	36	4	-	4	40
<b>TOTAL</b>	<b>75</b>	<b>1350</b>	<b>-</b>	<b>1350</b>	<b>150</b>	<b>-</b>	<b>150</b>	<b>1500</b>
<b>(B) RURAL YOUTH</b>								
Production of organic inputs	3	24	-	24	6	-	6	30
Protected cultivation of vegetable crops	2	16	-	16	4	-	4	20

Repair and maintenance of farm machinery and implements	2	16	-	16	4	-	4	20
Nursery Management of Horticulture crops	1	8	-	8	2	-	2	10
Dairying	1	8	-	8	2	-	2	10
Poultry production	1	8	-	8	2	-	2	10
Ornamental fisheries	1	8	-	8	2	-	2	10
Fish harvest and processing technology	1	8	-	8	2	-	2	10
<b>TOTAL</b>	<b>12</b>	<b>96</b>	<b>-</b>	<b>96</b>	<b>24</b>	<b>-</b>	<b>24</b>	<b>120</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	1	15	-	15	-	-	-	15
Integrated Nutrient management	2	30	-	30	-	-	-	30
Care and maintenance of farm machinery and implements	3	45	-	45	-	-	-	45
Management in farm animals	3	45	-	45	-	-	-	45
Livestock feed and fodder production	3	45	-	45	-	-	-	45
Production and use of organic inputs	2	30	-	30	-	-	-	30
Soil health	1	15	-	15	-	-	-	15
Integrated farming	1	15	-	15	-	-	-	15
<b>TOTAL</b>	<b>16</b>	<b>240</b>	<b>-</b>	<b>240</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>240</b>
<b>G.TOTAL</b>	<b>103</b>	<b>1686</b>	<b>-</b>	<b>1686</b>	<b>174</b>	<b>-</b>	<b>174</b>	<b>1860</b>

Details of training programmes attached in **Annexure –I**

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	220	20	240	-	-	-	220	20	240
KisanMela	1	220	50	270	20	10	30	240	60	300
KisanGhoshi	4	530	50	580	20	10	30	550	60	610
Exhibition	1	220	50	270	20	10	30	240	60	300
Group meetings	6	55	30	85	5	-	5	60	30	90
Lectures delivered	72	550	150	700	-	-	-	550	150	700
Newspaper coverage	12									Mass
TV talks	14									Mass
Popular articles	2									Mass
Extension Literature	8	2800	1200	4000	-	-	-	2800	1200	4000
<b>Advisory Services</b>										
Scientific visit to farmers field	310	900	160	1060	-	-	-	900	160	1060
Farmers visit to KVK	400	350	50	400	-	-	-	350	50	400
Diagnostic visits	10	90	10	100	-	-	-	90	10	100
Exposure visits	6	150	-	150	-	-	-	150	-	150
Soil health	6	500	-	500	-	-	-	500	-	500

Camp& Campaign										
Celebration of important days (specify)	3	80	20	100	-	-	-	80	20	100
Pre Kharif workshop	1	50	-	50	-	-	-	50	-	50
Pre Rabi workshop	1	50	-	50	-	-	-	50	-	50
World Fishries day (21.09.23)	1	40	10	50	5	-	5	45	10	55
Soil Health Cards distribution	1	1000	-	1000	-	-	-	1000	-	1000
Calf diwas	1	20	5	25	-	-	-	20	5	25
<b>Total</b>	<b>870</b>	<b>7825</b>	<b>1805</b>	<b>9630</b>	<b>70</b>	<b>30</b>	<b>100</b>	<b>7895</b>	<b>1835</b>	<b>9730</b>

### 3.5 Target for Production and supply of Technological products

#### SEED MATERIALS – 200 q

Sl. No.	Crop	Variety	Quantity (qtl.)	Distributed to the farmers (Nos.)
<b>CEREALS</b>	Wheat	HD-2967, HD-3086	100	at farmers field
	Rice	P-1718, Pusa – 1121, Pusa – 1728	100	„
<b>OILSEEDS</b>				
<b>PULSES</b>				
<b>VEGETABLES</b>				

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Distributed to the farmers (Nos.)
<b>FRUITS</b>	Lemon	Pant Lemon-1	100	-
	Guava	L-49	100	-
<b>SPICES</b>				
<b>VEGETABLES</b>	Brinjal	Pusa Hybrid-6	1000	-
	Cabbage	Pusa drum head	1000	-
	Chilli	Pant C-1	1000	-
	Tomato	Hinsona	1000	-
	Onion	Nasik Red	16000	-
<b>FOREST SPECIES</b>				
<b>ORNAMENTAL CROPS</b>				
<b>Total</b>			<b>20200</b>	



**Bio-products - Nil**

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>				

**LIVESTOCK - Nil**

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
	Cattle			
	GOAT			
	SHEEP			
	POULTRY			
	Pig farming			
	FISHERIES			

**3.6. Literature to be Developed/Published****(C) KVK News Letter - 02**

Date of start : January 2023 to December 2023  
 Number of copies to be published : 1000

**(B) Literature developed/published**

S.No.	Topic	Number	Name of Journal/literature
1	Research paper by each scientist	1(4)	-
2	Technical reports	4	-
3	News letters	3	-
4	Training manual all discipline	1	-
5	Popular article	6	-
6	Extension literature	3	-
	<b>Total</b>	<b>21</b>	<b>-</b>

**(C) Details of Electronic Media to be produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	Video clips of technology	Natural farming	1
2	Video clips of technology	Protected cultivation	1

**3.7. Success stories/Case studies identified for development as a case. (5 by each KVK) - 02**

- Brief introduction
- Interventions
- Output
- Outcomes



- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8. Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) PRA
- b) Group discussion
- c) Interviews

**Rural Youth**

- a) PRA
- b) Group discussion

**In-service personnel**

- a) Departmental meetings
- b) Group discussions

**3.9. Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions

**For FLD :**

- xxi) New variety/technology
- xxii) Poor yield at farmers level
- xxiii) Existing cropping system

**3.10. Field activities**

- i. Name of villages identified/adopted with block name (from which year)
  - 1. Khandera
  - 2. Chhauhas
  - 3. Bambawad
  - 4. NaiBasti
  - 5. Khatana
- ii. No. of farm families selected per village : 20
- iii. No. of survey/PRA conducted : 01
- iv. No. of technologies taken to the adopted villages 05
- v. **Name of the technologies found suitable by the farmers of the adopted**

**villages:-**

- Balanced use of fertilizers in rice and wheat,
- Summer moong cultivation
- Dhaincha green manuring to rice
- Wheat variety HD 3086 (timely sown)
- Wheat variety Pusa gold (very late sown)
- Use of seed drill for sowing of wheat
- Nutritional Kitchen gardening

- Post harvest technology
  - Use of land leveler and other improved agricultural implements.
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)-
- vii. Constraints if any in the continued application of these improved technologies-

### 3.11. Activities of Soil and Water Testing Laboratory

#### Status of establishment of Lab:

1. **Year of establishment** : Needs fund for purchase of equipments & infrastructure facilities for soil and water testing lab.

#### Required major equipment's and facilities for running the soil testing lab –

- i. Spectrometer
- ii. Water deionizer
- iii. Flame photometer

and other lab infrastructure facilities like electrification of lab and water supply.

#### 2. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	1500	1200	65	-
Water	-	-	-	-
Plant	-	-	-	-
<b>Total</b>	<b>1500</b>	<b>1200</b>	<b>65</b>	<b>-</b>

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

SN	Name of organization	Nature of Linkage
1.	Distt. Agri. Deptt./Distt. Hort. Deptt. , GautamBudh Nagar	Diagnostic Survey, KisanMela, KisanGosthi, training and Field day
2.	Distt Animal Husbandry Deptt., GBN.	Animal health camp, vaccination camp and pashupalakgoshthi
3.	SVBPUA&T, Meerut	KVK Scientist participated in Farmer's fair, cattle show, dog show or gosthi by the University.
4.	IFFCO / KRIBHCO	KVK Scientists participated in training programmes organized by the Deptt. as resource person.
5.	NGO' (FARMER)	KVK Scientists participated in various training programmes organized by them as resource person.
6.	NTPC, Dadri	Rural Development Programme
7.	ATMA	KisanGosthi, Demonstration, Farm School, Group, Scientist – Farmers Interaction
8.	Ambuja cement foundation	Camp, exhibition, tour, gosthi and training

#### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district  Yes  No

S. No.	Programme	Nature of linkage
1	KisanGosthi	
2	Field day	
3	Kisanmela	
4	FLD	
5	Validation trials	
6	Farmers training	
7	Exposure visit	
8	Farmers Scientist Interaction	

#### 4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	Training	Participated/organized
2	Exposure visit	Participated/organized

#### 4.4 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
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#### 5.0 Utilization of hostel facilities

S. No.	Programme	No. of days
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#### 6.0 Convergence with departments:

##### 7.1. Details of the programmes being implemented by your KVK in partnership with other institution

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
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##### 7.2. Brief achievements of above collaborative programmes

S. No.	Name of Programme	Salient achievement	Impact of the programme
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#### 8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period (2022)

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	TSP Project		
2	ARYA Project		
3	CFLD-NFSM Project		
	i. Kharif season		
	ii. Rabi season		
	iii. Summer season		
4	CSISA Project		

<b>5</b>	<b>NICRA Project</b>		
<b>6</b>	<b>Soil Health Card</b>		
<b>7</b>	<b>Other (please specify)</b>		
	<b>Total</b>		

**9. Feedback of the farmers about the technologies demonstrated and assessed:**

Feedback of the farmers will be taken.

**10. Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:**

Feedback of the KVK Scientist will be sent to the University.

## Annexure - I

## Training Programme

## i) Practicing Farmers &amp; Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
24.01.2023	PF	Cultivation of summer moong after harvesting of wheat.	1	18	-	18	2	-	2	20
10.05.2023	PF	Scientific Cultivation of Pearl millet	1	18	-	18	2	-	2	20
28.06.2023	PF	Agronomic practices and weed mgt in direct seeded rice (DSR)	1	18	-	18	2	-	2	20
14.07.2023	PF	Weed management in transplanted rice	1	18	-	18	2	-	2	20
06.10.2023	PF	Advanced in Rabi pulses production	1	18	-	18	2	-	2	20
<b>Horticulture</b>										
17.01.2023	PF	Installation practice of bower system in Bottle Gourd	1	18	-	18	2	-	2	20
10.03.2023	PF	Improved production technique of Cabbage	1	18	-	18	2	-	2	20
26.05.2023	PF	Improved production technique in Chilli	1	18	-	18	2	-	2	20
13.06.2023	PF	Importance of micro-nutrient in curd formation of Cauliflower	1	18	-	18	2	-	2	20
28.07.2023	PF	Role of Integrated Nutrient Management in Brinjal	1	18	-	18	2	-	2	20
<b>Livestock prod.</b>										
12.01.2023	PF/FW	Cow based natural farming (Zero budget farming)	1	18	-	18	2	-	2	20
11.03.2023	PF/FW	F.M.D.: Its symptoms and preventive measures.	1	18	-	18	2	-	2	20
20.07.2023	PF/FW	H.S. disease: Its symptom and preventive measures.	1	18	-	18	2	-	2	20
20.10.2023	PF/FW	Infertility management in dairy animals	1	18	-	18	2	-	2	20
<b>Agril. Engg.</b>										
11.01.2023	PF	Operation & maintenance of electric motor pump and diesel pump.	1	18	-	18	2	-	2	20
05.04.2023	PF	Safe use of thresher during operation	1	18	-	18	2	-	2	20
06.07.2023	PF	Use of Rotavator as puddler for paddy	1	18	-	18	2	-	2	20
10.10.2023	PF	Use of mulcher to reduce paddy straw burning	1	18	-	18	2	-	2	20
<b>Fisheries</b>										
11.04.2023	PF	Scientific management of aquaculture ponds	1	18	-	18	2	-	2	20
05.06.2023	PF	Vermicompost production technology and it's uses in aquaculture	1	18	-	18	2	-	2	20
02.08.2023	PF	Natural food production for fishes in culture ponds	1	18	-	18	2	-	2	20
04.10.2023	PF	Conventional and un-conventional fish feed	1	18	-	18	2	-	2	20
13.12.2023	PF	Aquarium business: Opportunities and scope	1	18	-	18	2	-	2	20

## (ii) Farmers &amp; Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration	No. of	Number	G.
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			in days	participants			of SC/ST			Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
08.02.2023	PF	Cultivation of summer moong after harvesting of wheat.	1	18	-	18	2	-	2	20
24.02.2023	PF	Importance of summer ploughing& green manuring in R-W, cropping system.	1	18	-	18	2	-	2	20
10.03.2023	PF	Scientific Cultivation of Pearl millet in summer season.	1	18	-	18	2	-	2	20
25.05.2023	PF	Agronomic practices and weed mgt in directed seeded rice (DSR)	1	18	-	18	2	-	2	20
08.06.2023	PF	Importance and cultivation of Course grain cereals	1	18	-	18	2	-	2	20
15.06.2023	PF	Weed management in transplanted rice	1	18	-	18	2	-	2	20
20.07.2023	PF	Cow Urine Based Input production for Natural farming	1	18	-	18	2	-	2	20
02.08.2023	PF	Scientific cultivation of black gram	1	18	-	18	2	-	2	20
08.09.2023	PF	Mgt. of paddy crop residues in- situ & ex-situ.	1	18	-	18	2	-	2	20
12.09.2023	PF	Agronomic practices for Rapeseed and mustard	1	18	-	18	2	-	2	20
11.10.2023	PF	Production practices of timely sown wheat.	1	18	-	18	2	-	2	20
26.10.2023	PF	Advanced in Rabi pulses production	1	18	-	18	2	-	2	20
<b>Horticulture</b>										
30.01.2023	PF	Improved Production technique of major cucurbitaceous vegetable crops	1	18	-	18	2	-	2	20
14.02.2023	PF	Training and pruning of major fruit crops	1	18	-	18	2	-	2	20
12.04.2023	PF	Crop management under polyhouse	1	18	-	18	2	-	2	20
27.04.2023	PF	Preparation of potting media	1	18	-	18	2	-	2	20
18.05.2023	PF	Guava orchard management techniques	1	18	-	18	2	-	2	20
15.08.2023	PF	Vegetable nursery growing techniques	1	18	-	18	2	-	2	20
29.09.2023	PF	Seasonal fruit plant propagation techniques	1	18	-	18	2	-	2	20
<b>Live Stock Production.</b>										
19.01.2023	PF/FW	Care and feeding of newly born calf	1	18	-	18	2	-	2	20
16.02.2023	PF/FW	Use and importance of mineral mixture	1	18	-	18	2	-	2	20
24.02.2023	PF/FW	Balance ration for dairy animals	1	18	-	18	2	-	2	20
09.03.2023	PF/FW	Infertility management in dairy animals	1	18	-	18	2	-	2	20
19.04.2023	PF/FW	Cow based natural farming (Zero budget farming)	1	18	-	18	2	-	2	20
26.04.2023	PF/FW	Vaccination and deworming schedule in dairy animals	1	18	-	18	2	-	2	20
28.06.2023	PF/FW	H.S. disease: Its symptom and preventive measures.	1	18	-	18	2	-	2	20
27.07.2023	PF/FW	Factor affecting milk yield (quantity) and milk composition	1	18	-	18	2	-	2	20
04.08.2023	PF/FW	F.M.D.: Its symptoms and preventive measures.	1	18	-	18	2	-	2	20
25.08.2023	PF/FW	Control measures of Endo-Ecto parasitic infestation	1	18	-	18	2	-	2	20
14.09.2023	PF/FW	Importance of AI and mgt. of pregnant animals.	1	18	-	18	2	-	2	20

26.10.2023	PF/FW	Symptoms of heat and time of insemination in dairy animals	1	18	-	18	2	-	2	20
03.11.2023	PF/FW	Mastitis in milch animals: Its symptoms and control.	1	18	-	18	2	-	2	20
29.11.2023	PF/FW	Importance of Indigenous cattle breed and their conservation	1	18	-	18	2	-	2	20
<b>Agril. Engg.</b>										
24.01.2023	PF	Save water through sprinkler irrigation	1	18	-	18	2	-	2	20
14.03.2023	PF	Save fuel during operation of diesel pump.	1	18	-	18	2	-	2	20
17.04.2023	PF	Operating and maintenance of micro irrigation systems.	1	18	-	18	2	-	2	20
10.05.2023	PF	Repair & maintenance of plant protection equipments	1	18	-	18	2	-	2	20
24.06.2023	PF	Use and importance of Reversible MB Plough	1	18	-	18	2	-	2	20
18.07.2023	PF	Methods of water harvesting	1	18	-	18	2	-	2	20
19.08.2023	PF	Operation and maintenance of micro-irrigation system.	1	18	-	18	2	-	2	20
11.09.2023	PF	Use of drip irrigation for water conservation in vegetables.	1	18	-	18	2	-	2	20
12.10.2023	PF	Importance of ferti seed drill in wheat sowing.	1	18	-	18	2	-	2	20
08.11.2023	PF	Wheat sowing by super seeder for crop residue mgt. after paddy harvesting.	1	18	-	18	2	-	2	20
13.12.2023	PF	Use of power tiller and power weeder for interculture in vegetables.	1	18	-	18	2	-	2	20
<b>Fisheries</b>										
21.01.2023	PF	Concept and potential of Integrated fish farming	1	18	-	18	2	-	2	20
23.02.2023	PF	Composite Aquaculture: A gateway to better profits	1	18	-	18	2	-	2	20
10.05.2023	PF	Aquarium business: Opportunities and scope	1	18	-	18	2	-	2	20
14.06.2023	PF	Composite Aquaculture: A gateway to better profits	1	18	-	18	2	-	2	20
20.07.2023	PF	Feed management in aquaculture	1	18	-	18	2	-	2	20
20.09.2023	PF	Aquatic weed management in fish ponds	1	18	-	18	2	-	2	20
05.10.2023	PF	Concept and potential of Integrated fish farming	1	18	-	18	2	-	2	20
08.11.2023	PF	Controlling water pollution for fisheries and aquaculture	1	18	-	18	2	-	2	20

## ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Crop Prodn.	Organic inputs	Cow urine based input, vermi- compost and azola production.	April, 2023	5	8	-	8	2	-	2	10
	Production of organic inputs	Production of organic inputs at farm level	July, 2023	5	8	-	8	2	-	2	10
	Organic inputs	Cow urine based natural farming and input production.	Sept, 2023	5	8	-	8	2	-	2	10

<b>Horticulture</b>											
Cucumber	Protected cultivation	Protected cultivation of cucumber	April, 2023	5	8	-	8	2	-	2	10
Vegetable seedlings+ Fruit saplings	Nursery growing	Hi-tech horticultural nursery	Nov., 2023	5	8	-	8	2	-	2	10
Rose and Zerbera	Protected cultivation	Production technology of rose and zerbera	Dec., 2023	5	8	-	8	2	-	2	10
<b>Live Stock Production.</b>											
Poultry Production	Nutrition Security	Backyard poultry farming	May, 2023	5	10	-	10	-	-	-	10
Dairy	Milk production	Scientific dairy farming	Dec., 2023	5	10	-	10	-	-	-	10
<b>Ag. Engg.</b>											
Agriculture implements and Machinery	Maintenance of farm machinery & implements	Importance of laser land leveler	May, 2023	5	8	-	8	2	-	2	10
		Maintenance of farm machinery implements	Sept., 2023	5	9	-	9	1	-	1	10
<b>Fisheries</b>											
Fishes	Fish processing and value addition	Fish products: Generating new sources of employment	April	5	8	-	8	2	-	2	10
	Ornamental fisheries and aquaculture	Aquarium business: Opportunities and scope	August	5	8	-	8	2	-	2	10

### iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
21.02.2023	EF	Importance and use of water soluble and nano fertilizers.	1	15	-	15	-	-	-	15
16.04.2023	EF	Soil testing methods & balance nutrient mgt.	1	15	-	15	-	-	-	15
07.07.2023	EF	Importance and cultivation of course grain cereals.	1	15	-	15	-	-	-	15
08.11.2023	EF	Importance of cow based natural farming.	1	15	-	15	-	-	-	15
<b>Horticulture</b>										
06.04.2023	EF	Flower and fruit drop management practices in Chilli	1	15	-	15	-	-	-	15
20.09.2023	EF	Role of micronutrient in cole crops	1	15	-	15	-	-	-	15
<b>Livestock Prod&amp; Mgt.</b>										
03.03.2023	EF	Mastitis in milch animals: its symptoms and control	1	15	-	15	-	-	-	15
22.06.2023	EF	Importance of green fodder in animal feed	1	15	-	15	-	-	-	15
21.09.2023	EF	Infertility management in dairy animals	1	15	-	15	-	-	-	15
22.12.2023	EF	Cow based natural farming (Zero budget farming)	1	15	-	15	-	-	-	15
<b>Agriculture Engineering</b>										
08.02.2023	EF	Use of sprinkler and drip irrigation	1	15	-	15	-	-	-	15



18.10.2023	EF	Use of various implements for crop residue mgt.	1	15	-	15	-	-	-	15
08.11.2023	EF	Use of seed drill & Happy Seeder for wheat sowing.	1	15	-	15	-	-	-	15
<b>Fisheries Science</b>										
16.2.2023	EF	An introduction to composite fish culture	1	15	-	15	-	-	-	15
03.7.2023	EF	Feed and nutrient management in aquaculture	1	15	-	15	-	-	-	15
06.11.2023	EF	Food and employment security through Integrated Fish Farming	1	15	-	15	-	-	-	15

**iv) Sponsored programme - As per direction of host university sponsored programmes will be organized.: NIL**

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# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA GHAZIABAD**

**DETAILED ACTION PLAN OF KVK GHAZIABAD**  
(1<sup>st</sup> Jan, 2023 to 31<sup>st</sup> Dec., 2023)

**KVK - Ghaziabad**

**1. GENERAL INFORMATION ABOUT THE KVK**

**1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail	Website
	Office	FAX		
KVK, (behind ordinance factory) Murad Nagar-Ghaziabad (UP)	01232 -262300	01232 - 262300	ghaziabadkvk@gmail.com	Ghaziabadkvk4.in

**1.2 .a. Name and address of host organization with phone, fax and e-mail**

Address	Telephone		E mail	Website
	Office	FAX		
Directorate of Extension SVBPUA&T, Meerut-250110 ( UP)	0121-2888540 2888511	0121-2888540	de@svbpuniversity meerut.org	Ghaziabadkvk4.in

1.2.b. Status of KVK website : Yes/No Yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :

1.2.d Status of ICT lab at your KVK : yes





**1.3. Name of the Programme Coordinator with phone & mobile no.**

Name	Telephone / Contact		
	Office	Mobile	Email
<b>Dr. Arvind Kumar</b>	<b>01232 -262300</b>	9410443028	arvindkvk@rediffmail.com

**1.4. Year of sanction: 1992**

### 1.5. Staff Position (as on 31 Aug. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	Programme Coordinator	Dr. Arvind Kumar	Assoc. Dir.Ext./Assoc. Professor and Officer Incharge	Plant protection	143600	13(A)(4)	152300	09-12-2003	Permanent	O.B.C.	9410443028	arvidkvk@rediffmail.com	
2	SMS	Smt. Anita Yadav	SMS/Asstt. Prof.	Home Science	176500	13(A)(11)	176500	29-07-1995	Permanent	OBC	7599089053	pranavyadav32@gmail.com	
3	SMS	Dr. Pramod Kumar	SMS/Asstt. Prof.	Animal Science	87300	12(8)	89900	23.06.2008	Permanent	OBC	8630295699	pramodk201070@rediffmail.com	
4	SMS	Dr. Anant Kumar	SMS/Asstt. Prof.	Horticulture	98200	12(8)	101100	23.06.2008	Permanent	SC	9837559055	dr.anantkumar1@gmail.com	
5	SMS	Dr. D.K. Sachan	SMS/Asstt. Prof.	Agronomy	98200	12(8)	101100	27.06.2008	Permanent	OBC	9868258098	<a href="mailto:sachandharmendra66@gmail.com">sachandharmendra66@gmail.com</a>	
6.	SMS	Akansha Singh	SMS/T-6	Soil Science	56100		56100	30.08.2022	Permanent	Gen	8127689583	dr.akanshasingh16@gmail.com	
6	Prog. Asstt. / Farm Manager	Dr. Rakesh Kumar	Programme Assistant		55200	7(8)	55200	24.07.2008	Permanent	Gen	7599151951	rakeshnagina@gmail.com	
7	Program Assistant	Sh. P.K. Rathi	Programme Assistant	Computer	55200	7(8)	55200	26.12.2008	Permanent	OBC	9411477406	pushrathi1978@gmail.com	

8	Office supdt/ Account.	Sh. Praveen Kumar Agarwal	Office Supdt/ Accou ntant	Accou nt	55200	7(8)	55200	26.12.2008	Permanent	Gen	9456255103	
9	Clerk	Sh. Sanjeev Kumar	Clerk		33300	4(9)	31400	24-07-2007	Permanent	Gen	27600	
10	Driver	Sh. Kanwar Pal	Driver	Driver	33300	4(9)	31400	27-07-2007	Permanent	OBC	9045839883	
11	Supporting Staff	Sh. Neeraj Kumar Yadav	Peon/Se urity Gauard	Peon	33300	4(9)	31400	09-12-2003	Permanent	OBC	9410230582	

#### 1.6. Total land with KVK (in ha): 17.56

S.No.	Item	Area (ha.)
1.	Under Buildings (Admn. + Farmer's Hostel + Residence + Demonstration Units)	2.33 (1.929+0.401)
2.	Under Crops	4.40
3.	Uncultivated Land (saline -sodic soils)	4.60
4.	Orchard/Agro-forestry	0.40
5.	Land encroachment	5.83
	<b>Total</b>	<b>17.56</b>

#### Infrastructural Development:

##### A) Buildings- Completed

S. N o	Name of building	Source of funding	Stage Complete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)
1.	Administrative Building	ICAR	24.07.10	510.00	-
2.	Farmers Hostel	ICAR	-	300.00	-
3.	Staff Quarter(6)	ICAR	-	400.00	-
4.	Demonstration Units (2)	ICAR	-	170.00	-
5.	Fencing	ICAR	-	2000 running meter	-
6.	Rain Water harvesting system	-	-	-	-
7.	Threshing floor	ICAR	-	300.00	-
8.	Farm go down	ICAR	-	60.00	-

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total Kms. Run	Present status
Bolero	2009	507000.00		Av. conditions
Tractor	2005	3,44,500		Av. condition
Motar cycle	2006	40,871		Av. Condition
Bicycle	2007	2375	-	Av. condition
Motar cycle	2010	50,000	-	Good conditions

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Steel Almirah (Two)	17.04.1996	-	Poor conditions
Senior Office Table (One)		-	Poor conditions
Office Table (Seven)		-	Poor conditions
Office Table (One)		-	Poor conditions
Office Chair with foam seat back (Eight)		-	Poor conditions
Office Chair (22)		-	Poor conditions
Steel bench (Two)		-	Poor conditions
<b>Total</b>		-	
Discount ½%		-	
		-	
Trade Tax @ 15%		-	
<b>Grand Total</b>		-	
Typewriter (Hindi) One	14.06.1996	-	Poor condition
Ceiling Fan (Two)	28.04.1999	-	Poor condition
Zero Till ferti seed drill	13.11.1999		Poor condition
Tractor drawn Sugar can cutter planter (Two Row)	03.02.2000		Poor condition
Xerox Machine	19.02.2000		Poor conditions
One Computer, with Table & Chair (old)	13.03.2000		Poor conditions
Ceiling Fan (Six)	23.03.2002	-	Good condition
Computer P4, HP 6089, Slide Projector, Screen	25.03.2004	-	Good condition
Inverter Sukan 760VA, Battery 12 V/175Ah	31.03.2004	-	Good condition
H.P. Digital Camera	31.03.2004	-	Poor condition
H.P. Scanner	31.03.2004	-	Good condition
Steel Almirah, Book case	31.03.2005	-	Good condition
Tractor Sonalika	15.07.2005	-	Good condition
HP laserjet Printer	21.12.2005	-	Poor condition
Motor Cycle Hero Honda	31.03.2006	-	Good condition
O.H.P.	13.06.2007	-	Good condition
Herro 14 disk lift baring, Cultivator 11 Tyne spring loaded, Bund maker Leveler 7 fut	27.09.2006	-	Good conditions
Book case 1775X840X305mm (Two)	22.03.2007	-	Good condition
Panasonic LCD Multimedia Projector	30.03.2007	-	Good condition
S.D. Memory Card Complete with Grd Reader Accessories	30.03.2007	-	Good condition
U.P.S. Microtek 800 VA 135378	25.05.2007	-	Poor condition
U.P.S.	13.06.2007	-	Poor condition
Tractor trolley	06.08.2009	-	Good condition
Furniture (Adam. Building)	23.03.2009	-	Good Condition
Furniture (Farmer hostel)	23.03.2009	-	Good Condition
Utensil etc	25.03.2009	-	Good condition
A.C. 1.5 ton	25.03.2009	-	Good condition

**1.8 A). Details of SAC meetings to be conducted in the year-2023**

Sl.No.	Date
1.	Nov, 2023 and Dec.- 2023 (Tentative)

## 2 Ghaziabad District Profile:

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S.No.	Farming system/enterprises
1	Crop Production + Dairy+ Fishries
2	Crop Production + Dairy +Horticulture (Vegetables & Flower cultivation)
3.	Crop Production + Dairy +Horticulture + Bee keeping
4.	Crop Production + Dairy +Horticulture+ Bee keeping +Poltry/Fishries/Mushroom, Vermi compost
5.	Integrated Farming System

### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S.No.	Agro-climatic Zone	Characteristics	Agro-ecological situation	Characteristics
1	Western Plain Zone UP-3	28°39' 48.68 N Latitude 77°25' 48.83 E Longitude 209 meter Altitude No. of rainy days-43 Average rain fall 720 mm. Maximum temp.-37 <sup>0</sup> -42 <sup>0</sup> C Minimum temp.-4.5 <sup>0</sup> C-6.9 <sup>0</sup> C Relative Humidity-32-85% Soil-Sandy Loam , Loam, Clay Cropping Intensity -157%	AES I AES II AES III AES IV	Loam to Sandy Loam Sandy Loam Sandy/Sandy Loam Alkaline/Saline

#### a) Soil types

S. No	Soil type	Characteristics			Area in (ha)
		pH	Fertility (N P K)	Crop	
1	Loam to Sandy Loam (AES I)	7.5-8.5	187.38, 53.7, 7.46	Sugarcane, Wheat, Paddy,	79910.00
2.	Sandy Loam (AESII)	7.0-7.5	99.49, 33.12 9.27	Sugarcane, Wheat, Paddy, Mustard, Sorghum	82954.00
3.	Sandy/Sandy Loam (AESIII)	7.5-8.0	125.71, 39.29 8.15	Sugarcane, Wheat, Paddy, Sorghum(Fodder)	80192.00
4.	Alkaline/Saline (AESIV)	8.0-9.2	129.27, 51.88 5.08	Wheat, Paddy, Vegetable, Sorghum (Fodder)	26911.00

#### 2.4. Area, Production and Productivity of major crops cultivated in the district (2021-22) District Statistics Bulletin

S. No	Crop	Area (ha)	Production (QT.)	Productivity (Qt./ha)
1	Paddy	9436	221274	23.45
2	Pulses	936	7207	7.70
3	Oilseeds	1214	15733	12.76
4	Maize	115	1953	17.98
5	Sugarcane	21784	13183677	605.20
6	Wheat	28505	395308479	29.92

Source: District agriculture department.

#### 2.5. Weather data (2021-22)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
		Maximum	Minimum	
April-19	10.50	42.2	13.0	62
May-19	13.30	42.2	19.5	63
June-19	70.70	40.0	20.0	58
July-19	201.30	35.0	24.0	53
August-19	190.40	36.0	31.0	65
Sept.- 19	136.90	36.5	31.5	68
Oct. 19	19.90	28.8	23.0	65
Nov.- 19	2.10	22.0	18.0	62
Dec.- 19	9.5	18.0	16.0	70

Jan.2020	0.50	16.0	14.0	85
Feb.2020	18.47	22.0	16.0	80
March-2020	4.96	29.5	18.0	60

### 3.9. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Cow</i>	62213	1343800	2170
<b>Buffalo</b>	294845	9871410	3348
<b>Sheep</b>	881	2951	335
<b>Goats</b>	32726	172975	498
<b>Pigs</b>			
<i>Crossbred</i>	6317		
<i>Indigenous</i>	29047		
<b>Rabbits</b>			
<b>Poultry</b>			
Hens			
<i>Desi</i>			
Category		Production (Q.)	Productivity
Fish (Reservoir)			

\*Statistical report

### 2.8 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust area
1.	Ghaziabad Sadar	Rajapur	1. Chittaura 2. Kanauja, 3. Kusailiya 4. Morta 5. Dasana Dehat	Paddy, Wheat, Mustard, Sugarcane, Dairy, Vermi compost, Olericulture, Floriculture Beekeeping, Vermi compost., Vegetables	1. Imbalanced use of fertilizer in major crops 2. Weeds problem in major crops 3. Low organic matter in soils 3. Top borer & white grub in Sugarcane 4. Mal nutrition in children 5. Stem borer, Bacterial blight and blast in Basmati Rice 6. Pod borer in pulses 7. Repeat breeding problem in milch animal 8. Calf mortality 9. Low milk production	1. INM in major crops, 2. IWM in major crops, 3. Oilseeds and pulses production, 4. IPM in major crops, 5. Production of Organic manures, 6. Organic farming, 7. Mineral Mixture supplement in milch animals. 8. Deworming and vaccination in animals. 9. Production of Green fodder, 10. Balanced diet in Farm family. 11. Olericulture and 12. Floriculture, Protected cultivation. 13. Value addition 14. Diversification



2.		Muradnagar	<ol style="list-style-type: none"> <li>1. Khorajpur</li> <li>2. Milak Rawli</li> <li>3. Dhedhan</li> <li>4. Shamsheerpur</li> </ol>	<p>Sugarcane, Paddy, Wheat, Mustard, Dairy, Olericulture, Floriculture, Bee Keeping,</p>	<ol style="list-style-type: none"> <li>1. Imbalanced use of fertilizer in major crops</li> <li>2. Weeds problem in major crops</li> <li>3. Low organic matter in soils</li> <li>3. Top borer &amp; white grub in Sugarcane</li> <li>4. Mal nutrition in children</li> <li>5. Stem borer, Bacterial blight and blast in Basmati Rice</li> <li>6. Pod borer in pulses</li> <li>7. Repeat breeding problem in milch animal</li> <li>8. Calf mortality</li> <li>9. Low milk production</li> </ol>	<ol style="list-style-type: none"> <li>1. INM in major crops,</li> <li>2. IWM in major crops,</li> <li>3. Oilseeds and pulses production,</li> <li>4. IPM in major crops,</li> <li>5. Production of Organic manures,</li> <li>6. Organic farming,</li> <li>7. Mineral Mixture supplement in milch animals.</li> <li>8. Deworming and vaccination in animals.</li> <li>9. Production of Green fodder,</li> <li>10. Balanced diet in Farm family.</li> <li>11. Olericulture and</li> <li>12. Floriculture, Protected cultivation.</li> <li>13. Value addition</li> <li>14. Diversification</li> </ol>
3.	Modinagar	Bhojpur	<ol style="list-style-type: none"> <li>1. Amirpur badhayla</li> <li>2. Sara</li> <li>3. Kalchhina</li> <li>4. Talheta</li> <li>5. Patla Niwari</li> </ol>	<p>Sugarcane Paddy, Wheat, Mustard, Dairy, Olericulture, Floriculture, Bee Keeping,</p>	<ol style="list-style-type: none"> <li>1. Imbalanced use of fertilizer in major crops</li> <li>2. Weeds problem in major crops</li> <li>3. Low organic matter in soils</li> <li>3. Top borer &amp; white grub in Sugarcane</li> <li>4. Mal nutrition in children</li> <li>5. Stem borer, Bacterial blight and blast in Basmati Rice</li> <li>6. Pod borer in pulses</li> <li>7. Repeat breeding problem in milch animal</li> <li>8. Calf mortality</li> <li>9. Low milk production</li> </ol>	<ol style="list-style-type: none"> <li>1. INM in major crops,</li> <li>2. IWM in major crops,</li> <li>3. Oilseeds and pulses production,</li> <li>4. IPM in major crops,</li> <li>5. Production of Organic manures,</li> <li>6. Organic farming,</li> <li>7. Mineral Mixture supplement in milch animals.</li> <li>8. Deworming and vaccination in animals.</li> <li>9. Production of Green fodder,</li> <li>10. Balanced diet in Farm family.</li> <li>11. Olericulture and</li> <li>12. Floriculture, Protected cultivation.</li> <li>13. Value addition</li> <li>14. Diversification</li> </ol>

4.	<b>Loni</b>	Loni	1.Ganauli 2. Mevala Bhatt 3.Siraura	Paddy, Wheat, Mustard,  Dairy, Olericulture, Floriculture, Bee Keeping,	1. Imbalanced use of fertilizer in major crops 2.Weeds problem in major crops 3. Low organic matter in soils 3. Top borer & white grub in Sugarcane 4. Mal nutrition in children 5. Stem borer, Bacterial blight and blast in Basmati Rice 6.Pod borer in pulses 7.Repeat breeding problem in milch animal 8.Calf mortality 9.Low milk production	1. INM in major crops, 2. IWM in major crops, 3. Oilseeds and pulses production, 4. IPM in major crops, 5.Production of Organic manures, 6.Organic farming, 7.Mineral Mixture supplement in milch animals. 8. Deworming and vaccination in animals. 9.Production of Green fodder, 10 Balanced diet in Farm family. 11Olericulture and 12. Floriculture, Protected cultivation. 13. Value addition 14. Diversification
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## 2.7 Priority thrust areas

S. No.	Thrust area
1.	Quality seed production of commercial crop, Cereals, Vegetables and flowers.
2.	Integrated Pest Management
3.	Low cost production technology for important kharif, rabi, and summer crops.
4.	Use of bio fertilizer & balance fertilization for sustainable agriculture production.
5.	Soil health care.
6.	Cultivation of off season vegetables.
7.	Balanced feeding of cattle and first aid in animals.
8.	Organic farming for sustainable agri production.
9.	Safe use and maintenance of farm machinery and equipments.
10.	Mechanization in field crops for overcome labour problem
11.	Sustainability of rice & Sugarcane based cropping system
12.	Malnutrition in children & pregnant women
13.	Integrated farming system
14.	Cow based natural farming.

## 3. TECHNICAL PROGRAMME

### A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
13	61	58.20(130units)	270

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
108	1980	1732	31127

Seed Production (Qtl.)	Planting material (Nos.)	Chicks prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
450	20000		1200

### 3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Crop Production	Sugarcane	Low yield and return due to late and sole planting of sugarcane	Economy assessment of different intercrops with sugarcane	-	Integrated crop management	Seed production techniques	OFT, Training	Nutrients
2	Crop Management	OKRA	Low production of Okra	Assessment of Okra Variety in relation to yield and resistance to YVMV	-	Production of low value and high volume crops	Production techniques of off season	OFT and Training	Seed
3	Crop Production	Wheat	Low yield due to old variety	Assessment of New high yielding variety of wheat	-	Improved vars of Wheat	-	OFT and Training	Seed,
4	Crop Production	Paddy	Low yield of paddy due to low hills per m area	-	Transplanting of paddy in 20/20 cm geometry	Integrated crop management	-	FLD and Training	-
5									
6	House hold food security	Seasonal Vegetable	Enhancing household food security through nutritional garden	Malnutrition	House hold food security by kitchen gardening	Value addition	House hold food security	OFT, FLD and Training	Mini kit of vegetable
9	Production and management technology	Cauliflower	Evaluation of high yielding Varieties of cauliflower	Loose head & Low Productivity of cauliflower	Balance use of fertilizer	-	-	FLD and OFT	Seeds
10	Production management	Urd	Assessment of Nutritional requirement in Urd Crop	Low yield due to imbalance or no use of nutrient	Improved variety of seeds	Production techniques of Pulses	Safe Storage of Pulses	OFT, FLD and Training	Seed and weedicide
11	Integrated pest management	Okra	Effective Management of fruit borer	Low Productivity of Okra	-	Nursery management	Grading and packing of okra	OFT and Training	Insecticide
12	Weed management	Black Gram	Effective weed management in black gram	Low yield due to high infestation of weeds during kharif	Improved variety seed and post emergence weedicide	-	IPM modules for production management	OFT, FLD and Training	Seed and weedicide
13	ICM	Mustard	Low yield of Mustard	-	Line sowing, improved variety and Sulpher application	Integrated crop management	Package and practices for hired production of Mustard	OFT and Training	Seed and Sulphur
14	Weed Management	Paddy	Low yield of Paddy due to more infestation of Weed	-	Weed control through post emergence weedicide	Weed management	-	FLD and Training	Weedicide
15	INM	Paddy	Imbalance use of fertilizer	-	Response of Paddy to secondary and micro nutrients	Integrated crop management	Role of Micro nutrients in Paddy Crops	FLD and Training	NPK Zn B Fe
16	Varietals performance	Chaina Cabbage	Low yield of Chaina Cabbage	-	Use of high yielding variety	Production of exotic vegetable crops	-	FLD and Training	Seeds

17	Varietals performance	Bottle guard	Use of Poor variety of Bottle Guard	-	Use of high yielding variety of Bottel Guard	-	-	FLD	Seeds
18	Varietals performance	Chrysanthemum	Poor variety used by farmer	-	Use of high yielding variety of Chrysanthemum	Production and Marketing flowers	-	FLD and Training	Seeds
19	Feed and Fodder technology	Barseem	Use of Local variety	-	Use of improved variety of Barseem	Fodder production techniques	Green fodder production techniques in whole year	FLD and Training	Seed/Planting material
20	Feed and Fodder technology	Oat	Use of Local variety	-	Use of improved variety of Oat	-	-	FLD	Seed/Planting material
21	IPM	Paddy	Less use of insecticide against stem borer	-	Use of IPM modules	-	Role of IPM for Eco-friendly	FLD and Training	Insecticide
22	IDM	Wheat	More infestation of Yellow rust in wheat	-	Seed treatment with fungicide	Integrated diseases management	-	FLD and Training	Fungicide
23	RCT	Potato	Use of manual method of Potato sowing	-	Demo. Of potato planter for RCT	Ploughing implements and its managements	Planting technique of potato by potato planter	FLD and Training	Hired Potato planter
24	RCT	Paddy	Use of manual sprayer for spray of insecticide	-	Use of Power spray for spraying of insecticide	-	Use of Power spray and its maintenance	FLD and Training	Hired Power spray

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

#### A.2. Abstract on the number of technologies to be refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation	02									02
Seed / Plant production					02					02
Integrated Crop Management	01									01
Integrated Nutrient Management	02									02
Integrated Pest Management	01									01
Small Scale income generating enterprises								02		02
<b>TOTAL</b>	<b>04</b>				<b>02</b>			<b>02</b>		<b>10</b>

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Evaluation of Breeds		01						01
Feed and Fodder	01							01
Small Scale income generating enterprises	01							01
<b>TOTAL</b>	<b>02</b>	<b>01</b>						<b>03</b>

#### A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises

**B. Details of On Farm Trial  
OFT-1**

<b>Crop /Enterprise</b>	<b>Paddy</b>
<b>Title of OFT</b>	<b>To assess the adaptability of newly released Basmati rice PB-1718 under Ghaziabad condition.</b>
<b>Problem diagnosed</b>	Decreasing yield of prevailing varieties due to susceptibility for pests and diseases and decrease in yield.
<b>Farming situation</b>	Irrigated
<b>Production System and thematic area</b>	Varietal evaluation
<b>Farmer's Practice</b>	Pusa basmati- 1121
<b>Details of technology selected for assessment/ refinement</b>	T1 :- Farmers Practice T2:- Pusa Basmati-1718
<b>Source of Technology</b>	IARI, New Delhi
<b>No. of Farmers</b>	05
<b>Critical Input</b>	Seed
<b>Performance indicators</b>	
<b>a) Technical</b>	1. No. of effective Tiller/ M2 2. Diseases and pest incidence 3. Yield(q/ha)
<b>b) Economic</b>	1. Cost of cultivation 2. Net return 3. B:C Ratio
<b>c) Social</b>	Adoptability of technology.

**OFT:- 02**

<b>Crop/ Enterprises</b>	<b>Wheat</b>
<b>Title of OFT</b>	<b>To assess the adaptability of newly released timely sown wheat variety DBW-187 ( Karan Bandana) under Ghaziabad condition.</b>
<b>Problem diagnosed</b>	Decreasing yield of prevailing varieties due susceptibility for diseases and insect pest and decrease in yield.
<b>Farming Situation</b>	Irrigated
<b>Production System and thematic area</b>	Varietal evaluation
<b>Farmers Practice</b>	Variety. HD-2967
<b>Details of technology selected for assessment/ refinement</b>	T1:- (Farmer practice. T2:DBW -187
<b>Source of technology</b>	IIWBR, Karnal , Haryana
<b>No. of Farmers</b>	05
<b>Critical Inputs</b>	Seed
<b>Performance indicator</b>	
<b>a) Technical</b>	1. No. of effective Tiller/ M2 2. disease incidence 2. Yield(q/ha)
<b>b) Economic</b>	1. Cost of cultivation 2. Net return 3. B:C Ratio
<b>c) Social</b>	Adoptability of technology.

**OFT-03**

<b>Crop/ Enterprises</b>	Tomato
<b>Title of OFT</b>	<b>Assessment of Tomato F1 hybrid.</b>
<b>Problem diagnosed</b>	Low Production
<b>Farming Situation</b>	Irrigated
<b>Production System and thematic area</b>	Varietal assessment
<b>Farmers Practice</b>	Local Variety Seed.
<b>Details of technology selected for assessment/refinement</b>	T1 :- Local (selection 22) T2 :- Pusa hybrid-8 / Nagaur
<b>Source of technology</b>	IARI, New Delhi
<b>No. of Farmers</b>	05 (1 ha )
<b>Critical Inputs</b>	Seed
<b>Performance indicator</b>	
a) <b>Technical</b>	1. Plant height 2. Days to flowering 3. No. of Fruits per plant 4. Yield
b) <b>Economic</b>	B:C Ratio
c) <b>Social</b>	Adoptability of technology.

**OFT-04**

<b>Crop/Enterprise:</b>	Marigold
<b>Title of on-farm trial</b>	Evaluation of Marigold varieties with intercropping in sugarcane
<b>Problem diagnosed</b>	Low income & Low Productivity of Marigold
<b>Farming situation</b>	Irrigated
<b>Production system and thematic area</b>	Bottle grad-potato- Marigold with sugarcane
<b>Farmers' Practices</b>	Use of low yield variety and low income
<b>Details of technologies selected for assessment/refinement</b>	Assessment of recommended variety with sugarcane
<b>Source of technology</b>	ICAR
<b>No. of farmers</b>	05
<b>Critical input</b>	Seed
<b>Performance indicators</b>	
1. <b>Technical</b>	Compact flowers
2. <b>Economic</b>	B:C Ratio, yield (Q/ha)
3. <b>Social</b>	Farmer reaction
<b>Treatment</b>	
T <sub>1</sub>	Farmer practice –unknown variety
T <sub>2</sub>	New improved Variety- BM-1 /BM-2 / Arka honey

**OFT:- 05**

<b>Crop/Enterprises</b>	Tomato (Selechon 22/2853)
<b>Title of on-farm trial</b>	<b>Assessment of HaNPV against tomato fruit borer(<i>Helicoverpa armigera</i>).</b>
<b>Problem diagnosed</b>	Qualitative and quantitative loss of tomato fruits.
<b>Production system and thematic area</b>	IPM
<b>Farming situation</b>	Irrigated
<b>Farmer's practices</b>	T1- Farmer practices (Foliar spray of imidacproprid 15sl 500 ml/ha.
<b>Details of technologies selected for assessment/refinement</b>	T2 – HaNPV @ 250 LE/ha. 2 foliar spray at 20 days interval (after flowering)
<b>Source of technology</b>	SVPUA&T, Meerut.
<b>No. of farmers</b>	05 (0.4 ha. Each)
<b>Critical input</b>	HaNPV.
<b>Performance indicators</b>	Pest incidence ( No of fruit damaged)
<b>a). Technical</b>	
<b>b) Economic</b>	B:C Ratio
<b>c) Social</b>	Adoptability of technology.

**OFT:- 06**

<b>Crop/Enterprises</b>	Paddy(PB-1509)
<b>Title of on-farm trial</b>	<b>Assessment of technology against bakane disease of Paddy.</b>
<b>Problem diagnosed</b>	Low production
<b>Production system and thematic area</b>	IDM
<b>Farming situation</b>	Irrigated
<b>Farmer's practices</b>	T1- Farmer practices (Foliar spray by Carbendazim 75% wp@ 2gm/lt water )
<b>Details of technologies selected for assessment/refinement</b>	T2 – Seed soaking by Trifloxistrobium 25% + Tebuconazole 50% @ 0.4g/lit water and foliar spray 0.5 g/liter water at 15 days old nursery
<b>Source of technology</b>	HAU, Hisar.
<b>No. of farmers</b>	05 (0.4 ha. Each)
<b>Critical input</b>	Trifloxistrobium 25% + Tebuconazole 50%
<b>Performance indicators</b>	% Disease Incidence
<b>a). Technical</b>	Yield (t/ha)
<b>b) Economic</b>	C:B Ratio
<b>c) Social</b>	Adoptability of technology.

**OFT-07**

<b>Crop /Enterprise</b>	Paddy
<b>Title</b>	Assessment of fertilizer dose in paddy
<b>Problem diagnosed</b>	Use of imbalanced dose of fertilizer
<b>Farming situation</b>	Irrigated

<b>Farmer's Practice</b>	N:P:K – 100:60:0
<b>Source of Technology</b>	SVPUA & T, Meerut
<b>Details of technologies</b>	T <sub>1</sub> : Recommended dose (N, P, K, Zn, S & Fe 80:60: 40:25: 40 & 25) kg/ha. T <sub>2</sub> : Recommended dose of fertilizer on soil test basis
<b>No. of families</b>	03 (0.4 x 3 = 1.2 ha.)
<b>Critical Input</b>	N, P,K, Zn, S & Fe
<b>Performance indicators</b>	
<b>i) Technical</b>	<ul style="list-style-type: none"> <li>• Yield/ha.</li> <li>• No. of tiller/hill</li> <li>• Insect incidence (%)</li> </ul>
<b>ii) Economic</b>	
<b>iii) Social</b>	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net profit</li> <li>• B:C ratio</li> <li>• Feedback of farmer</li> </ul>

#### OFT-08

<b>Crop /Enterprise</b>	Wheat
<b>Title</b>	Assessment of fertilizer requirement in late sown Wheat.
<b>Problem diagnosed</b>	Imbalance use of fertilizer
<b>Farming situation</b>	Irrigated
<b>Farmer's Practice</b>	N:P:K – 150:60:0
<b>Source of Technology</b>	SVPUA&T Meerut
<b>Details of technologies selected for assessment/refinement</b>	T <sub>1</sub> -Recommended dose (K, Zn & S 150:60: 40:25 & 20 kg/ha.) T <sub>2</sub> -Recommended dose of fertilizer on soil test basis.
<b>No. of families</b>	3 (0.4 x 3 = 1.2 ha.)
<b>Critical Input</b>	Potash, Zinc & Sulphur
<b>Performance indicators</b>	
<b>i) Technical</b>	<ul style="list-style-type: none"> <li>• Yield/ha.</li> <li>• No. of tiller/hill</li> <li>• Insect incidence (%)</li> </ul>
<b>ii) Economic</b>	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net profit</li> </ul>
<b>iii) Social</b>	<ul style="list-style-type: none"> <li>• B:C ratio</li> <li>• Feedback of farmer</li> </ul>

#### OFT-09

##### Preparation from pulses and vegetable Badis

<b>Particulars</b>	<b>Details</b>
Title of OFT	Assessment of role of SHG for income generation through preparation from different pulses and vegetable Badi.
Problem diagnosed	Nutrient inadequacy
Thematic Area	Nutritional management



Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice – Preparation from few pulses T <sub>2</sub> - Preparation from different type of pulses and vegetables.
Source of Technology	GBPUA&T, Pantnagar
Characteristics of Technology	1. High in Protein, energy and vitamins 2. Can be used in different variations 3. High Palatability 4. Availability in all season
No of Trail	05
Critical Input	Pulses, Vegetables, Spices and edible oil
Performance Indicator/Parameter	Nutritive value Cost of preparation Profitability Sale opportunity Farmer Reaction and Feedback

### OFT-10

#### Nutritional security

Particulars	Details
Title of OFT	Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of farm women.
Problem diagnosed	Low nutritional status and malnutrition of farm women.
Thematic Area	<b>Nutritional security</b>
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice Wheat flour only,( protein 10-11%,iron1.0-1.2mg/100gm.) T <sub>2</sub> - fortified wheat flour(75%+gram flour(20%)+barely flour(5%)for 180 days , protein 14-15%,iron2.0-2.4mg/100gm.)
Source of Technology	NIN Hyderabad
Characteristics of Technology	High in Protein, energy and vitamins
No of Trail	05
Critical Input	Gram flour(80gm/day)+Barely flour(20gm/day)
Performance Indicator/Parameter	Technical observations 1.Energy adequacy(height,wheight,BMI) 2.Perceived rate of exertion(Brogs 10 point scale 3.hemoglobin level. Availability and adopation of technology.
Expenditure	(Aprox. Exp. Rs. 1000/trial)

### OFT-11

<b>Crop/Enterprises</b>	Poultry
<b>Title of on-farm trial</b>	<b>Assessment of different dual purpose poultry breeds.</b>
<b>Problem diagnosed</b>	Low income
<b>Production system and thematic area</b>	Semi intensive system
<b>Farming situation</b>	Irrigated
<b>Farmer's practices</b>	T <sub>1</sub> - Farmer practices (Local breeds )
<b>Details of technologies selected</b>	T <sub>2</sub> – Kadaknath

<b>for assessment/refinement</b>	
<b>Source of technology</b>	Jhabua
<b>No. of farmers</b>	05
<b>Critical input</b>	Chicks
<b>Performance indicators</b>	1.Egg laying rate
<b>a). Technical</b>	2.body weight
	3. FCR
<b>b) Economic</b>	C:B Ratio
<b>c) Social</b>	Adoptability of technology.

#### OFT-12

<b>Crop/Enterprises</b>	Milch Animals
<b>Title of on-farm trial</b>	<b>Assessment of different animal feed.</b>
<b>Problem diagnosed</b>	Low milk yield and repeat breeding.
<b>Production system and thematic area</b>	Integrated
<b>Farming situation</b>	Irrigated
<b>Farmer's practices</b>	T1- Farmer practices (chowker)
<b>Details of technologies selected for assessment/refinement</b>	T2 – Bypass animal feed + mineral supplementation.
<b>Source of technology</b>	IVRI
<b>No. of farmers</b>	05
<b>Critical input</b>	feed + mineral
<b>Performance indicators</b>	1.Milk yield
<b>a). Technical</b>	2.Conception rate
	3. Health status.
<b>b) Economic</b>	C:B Ratio
<b>c) Social</b>	Adoptability of technology.

#### OFT-13

<b>Crop/Enterprises</b>	Field crops
<b>Title of on-farm trial</b>	<b>Assessment of different farming system.</b>
<b>Problem diagnosed</b>	Residual effect of chemicals.
<b>Production system and thematic area</b>	Integrated
<b>Farming situation</b>	Irrigated
<b>Farmer's practices</b>	T1- Farmer practices (Conventional farming)
<b>Details of technologies selected for assessment/refinement</b>	T2 – Organic farming. T3- Natural farming.
<b>Source of technology</b>	IIFSR
<b>No. of farmers</b>	03
<b>Critical input</b>	Organic / cow based natural Inputs
<b>Performance indicators</b>	1.crop yield
<b>a). Technical</b>	2.soil health status.
<b>b) Economic</b>	C:B Ratio
<b>c) Social</b>	Adoptability of technology.

### 3.2 Frontline Demonstrations

A.

#### Details of Cluster FLDs to be organized

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ Demonstration
1.	Green Gram	ICM	Var.- IPM 2-3	Seed , Pesticides, weedicide.	Zaid- 2023	10	25
2.	Black gram	ICM	Var. –Mukund-2	Seed Pesticides, weedicide	Kharif-2023	10	25
3.	Lentil	ICM	Var. PL-8	Seed, Pesticides, weedicide.	Rabi 2023	10	25
4.	Mustard	ICM	Var.-RH-749	Seed, Pesticides, weedicide.	Rabi 2023	10	25
<b>Total</b>						<b>40</b>	<b>100</b>

Details of FLDs to be organized –

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demon.	Parameters identified
<b>Other than oilseed and pulses</b>									
1	Paddy	PB-1509	INM	Balance use of Fertilizer in Rice. N P K S Zn 120 60 60 20 25	Potash Sulpher And Zinc Sulphate	Kharif-2023	4.0	10	1. No of effective tillers/ M2. 2. Yield q/ha. 3. Economics (B:C Ratio)
2	Paddy	Pusa-1121 PB-1	Control of stem borer in Paddy.	Use of tricho card	tricho card	Kharif-2023	4.0	10	1. Yield q/ha 2. Disease incidence 3. Economics (B:C Ratio)
3	Wheat	DBW-187	INM	Balance use of Fertilizer in Wheat. N P K S Zn 150 60 40 30 25	Potash Sulpher And Zinc Sulphate	Rabi 2023	4.0	10	1. No of effective tillers/ M2. 2. Yield q/ha. 3. Economics (B:C Ratio)
4.	Sugarcane	Cos-0238	INM	Balance use of Fertilizer in Sugarcane. N P K Zn 180 80 40 25	Potash And Zinc Sulphate	Summer-2023	4.0	10	1. No of Malleable cane/ M2. 2. Yield q/ha. 3. Economics (B:C Ratio)

5.	Paddy	Pusa-1121	Integrated Nutrient Management	Application of Ferrous sulphate at the time of field preparation	Ferrous sulphate @ 30 kg./ha.	Kharif 2023	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>
6	Wheat	Timely Sown Variety	INM	Application of FYM and Zinc.	25% nutrient requirement through FYM	Rabi-2023	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>Yield increase (%)</li> </ul>
7	Tomato		IPM	Use of Fly trap for control of fruit fly.	Fly trap with leur	Zaid-23	4.0	10	<ol style="list-style-type: none"> <li>1. No of milkable cane / M2</li> <li>2. Yield q/ha.</li> <li>3. Economics (B:C Ratio.)</li> </ol>
8	Cauliflower	Golden - 85	INM	Balance use of Fertilizer in Cauliflower. N    P    K    B 120 60 40 20	Potash and boron	Rabi 2023-24	1.0	05	<ol style="list-style-type: none"> <li>1. Plant height</li> <li>2. No. of leaves per plant</li> <li>3. Yield per plant.</li> <li>4. Economics (B:C Ratio)</li> </ol>
9	Onion	Red beauty / Nasik Red	Varietal demonstration	Red beauty / Nasik Red	Seed	Rabi 2023-24	1.0	05	<ol style="list-style-type: none"> <li>1. Plant height</li> <li>2. No. of pod per plant</li> <li>3. Yield per plant.</li> <li>4. Economics (B:C Ratio)</li> </ol>
10	Bottle Gourd	Pusa santusti	INM	Balance use of Fertilizer in Bottle Gourd. N    P    K 80   60 60	Potash	Zaid 2023	1.0	05	<ol style="list-style-type: none"> <li>1. Yield</li> <li>2. Cost of cultivation</li> <li>3. Net Return</li> <li>4. B:C Ratio</li> <li>5. Yield increase (%)</li> </ol>
11	Mango	Dasari / Chausa	INM	Balance use of Fertilizer in Mango ( according to Plant age) N    P    K 100 50 50	Potash	Kharif 2023	1.0	05	<ol style="list-style-type: none"> <li>1. Yield q/ha</li> <li>2. % insect incidence</li> <li>3. Economics (B:C Ratio)</li> </ol>
<b>Total</b>							<b>32.0</b>	<b>90</b>	

**FLD on Other Enterprise : Home Science**

Sl. No.	Enterprise	Variety/breed/species/others	No. of farmers / Farm families	No. of units	Critical inputs	Performance parameters / indicators	Technology to be adopted
1	Income generation through preparation of different pulses and vegetables BADIS	-	10	10	Moong + Urd dal and veg.	1. Comparison of value Against Market Products 2. Economics	BADIS for gradational income.
2	Demonstration of different natural and chemical preservatives in pickle making.	-	05	05	Preservatives (sugar, salt, jaggery, glacial acetic acid, sodium benzoate) Vegetables and containers.	1. Efficiency Parameter a)Storage life 2. Adoptability of technology	Techniques of pickle preservations.
3	Nutritional garden	-	10	10	Improved variety seeds + vermin compost (biofortified variety)	1. Economic (saving Nutritional cost 2. Yield .	Pesticide free vegetables, yearly rotation for availability, high yielding varieties

**FLD on Other Enterprise : Livestock**

Sl. No.	Enterprise	Variety/breed/species/others	No. of farmers / Farm families	No. of units	Critical inputs	Performance parameters / indicators	Technology to be adopted
1	Dairy	Murah	15	15	UMMB	1. Milk yield 2. conception rate	UMMB
2	Dairy	Shahiwal	15	15	Mineral Mixture	1. Milk yield 2. conception rate	Mineral Mixture supplementation.
3	Dairy	Milch animals	100	100	Dewormer	1. Health status 2. Milk yield	Deworming in milch animals.

**B. Extension and Training activities under FLDs**

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	Jan2023 to Dec 2023	475
2	Farmers Training	10	Jan2023 to Dec 2023	150
3	Media coverage	08	Jan2022 to Dec 2023	Mass
4	Training for extension functionaries	05	Jan2022 to Dec 2023	50

**C. Details of FLD on Enterprises**
**(i) Farm Implements**

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / Indicators
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**(ii) Livestock Enterprises**

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / Indicators
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**3.5 Training (Including the sponsored and FLD training programmes):**
**a. ON Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Nursery management	01	18	-	18	02	-	02	20
Integrated Crop Management	03	54		54	06		06	60
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	02	36	-	36	04	-	04	40
Protective cultivation (Green Houses, Shade Net etc.)	01	18	-	18	02	-	02	20
<b>b) Fruits</b>								
Cultivation of Fruit	02	36	-	36	04	-	04	40
Export potential fruits	01	18	-	18	02	-	02	20
<b>C) Tuber crops</b>								
Production and Management technology	01	18		18	02		02	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	1	18		18	02		02	20
Nutrient Use Efficiency	1	18		18	02		02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	2	36		36	04		04	40
Disease Management	1	18		18	02		02	20
Feed management	1	18		18	02		02	20
Production of quality animal products	1	18		18	02		02	20
<b>V Home Science/Women empowerment</b>								
Storage loss minimization techniques	01	-	18	18	-	02	02	20
Value addition	01	-	18	18	-	02	02	20
Women and child care	02	-	36	36	-	04	04	40
<b>VII Plant Protection</b>								
Integrated Pest Management	04	72	-	72	08	-	08	80
<b>TOTAL</b>	<b>27</b>	<b>414</b>	<b>72</b>	<b>486</b>	<b>46</b>	<b>8</b>	<b>38</b>	<b>540</b>
<b>(B) RURAL YOUTH</b>								

Bee-keeping	01	12	-	12	03	-	03	15
Seed production	01	12	-	12	03	-	03	15
Production of organic inputs	01	12	-	12	03	-	03	15
Planting material production	01	12	-	12	03	-	03	15
Vermi-culture	01	12	-	12	03	-	03	15
Nursery Management of Horticulture crops	01	12	-	12	03	-	03	15
Value addition	02	-	24	24	-	06	06	30
Dairying	1	12	-	12	-	03	03	15
Poultry production	1	12	-	12	-	03	03	15
<b>TOTAL</b>	<b>10</b>	<b>96</b>	<b>24</b>	<b>120</b>	<b>24</b>	<b>06</b>	<b>30</b>	<b>150</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	02	26	-	26	04	-	04	30
Integrated Pest Management	02	26	-	26	04	-	04	30
Integrated Nutrient management	02	26	-	26	04	-	04	30
Protected cultivation technology	02	26	-	26	04	-	04	30
Management in farm animals	02	26	-	26	04	-	04	30
Household food security	02	-	26	26	-	04	04	30
Women and Child care	02	-	26	26	-	04	04	30
Low cost and nutrient efficient diet designing	01	-	08	08	-	02	02	10
<b>TOTAL</b>	<b>15</b>	<b>130</b>	<b>60</b>	<b>190</b>	<b>20</b>	<b>10</b>	<b>30</b>	<b>220</b>
<b>G. Total</b>								

**b. OFF Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	-	36	04	-	04	40
Resource Conservation Technologies	02	36	-	36	04	-	04	40
Crop Diversification	01	18	-	18	02	-	02	20
Integrated Farming	02	36	-	36	04	-	04	40
Seed production	01	18	-	18	02	-	02	20
Integrated Crop Management	02	36	-	36	04	-	04	40
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Off-season vegetables	02	36	-	36	04	-	04	40
Nursery raising	01	18	-	18	02	-	02	20
Protective cultivation (Green Houses, Shade Net etc.)	01	18	-	18	02	-	02	20
<b>b) Fruits</b>								
Layout and Management of Orchards	01	18	-	18	02	-	02	20
Cultivation of Fruit								
Management of young plants/orchards	01	18	-	18	02	-	02	20
<b>g) Medicinal and Aromatic Plants</b>								
Production and management technology	01	18	-	18	02	-	02	20
<b>III Soil Health and Fertility Management</b>								
Soil and Water Conservation	02		36	36		04	04	40
Integrated Nutrient Management	02		36	36		04	04	40
Micro nutrient deficiency in crops	02		36	36		04	04	40
<b>IV Livestock Production and Management</b>								
Dairy Management	03	54		54	06		06	60
Poultry Management	01	18	-	18	02	-	02	20
Disease Management	02		36	36		04	04	40
Feed management	02		36	36		04	04	40

<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	18	18	-	02	02	20
Design and development of low/minimum cost diet	01	-	18	18	-	02	02	20
Designing and development for high nutrient efficiency diet	01	-	18	18	-	02	02	20
Location specific drudgery reduction technologies	01	-	18	18	-	02	02	20
<b>VII Plant Protection</b>								
Integrated Pest Management	11	198	-	198	22	-	22	220
Integrated Disease Management	01	18	-	18	02	-	02	20
<b>TOTAL</b>								
<b>(C) Extension Personnel</b>								
Management in farm animals	03		45	45				45
Women and Child care	03	45		45				45
<b>TOTAL</b>								
<b>G. Total</b>	<b>30</b>	<b>464</b>	<b>72</b>	<b>536</b>	<b>56</b>	<b>8</b>	<b>64</b>	<b>600</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	-	36	04	-	04	40
Resource Conservation Technologies	05	90	-	90	10	-	10	100
Crop Diversification	02	36	-	36	04	-	04	40
Seed production	02	36	-	36	04	-	04	40
Integrated Crop Management	02		36	36		04	04	40
Production of organic inputs	02		36	36		04	04	40
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Off-season vegetables	02	36	-	36	04	-	04	40
Nursery raising	02	36	-	36	04	-	04	40
Protective cultivation (Green Houses, Shade Net etc.)	01	18	-	18	02	-	02	20
<b>b) Fruits</b>								
Layout and Management of Orchards	01	18	-	18	02	-	02	20
Cultivation of Fruit	01	18	-	18	02	-	02	20
Management of young plants/orchards	02	36	-	36	04	-	04	40
Rejuvenation of old orchards	01	18	-	18	02	-	02	20
Plant propagation techniques	01	18	-	18	02	-	02	20
<b>c) Ornamental Plants</b>								
Export potential of ornamental plants	01	18	-	18	02	-	02	20
<b>d) Plantation crops</b>								
Production and Management technology	02	36	-	36	04	-	04	40
<b>TOTAL</b>								
<b>G. Total</b>								
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	02		36	36		04	04	40
Soil and Water Conservation	02		36	36		04	04	40
Integrated Nutrient Management	02		36	36		04	04	40
Micro nutrient deficiency in crops	02		36	36		04	04	40



<b>IV Livestock Production and Management</b>								
Dairy Management	05							
Poultry Management	02		36	36		04	04	40
Disease Management	03		54	54		06	06	60
Feed management	03							
Production of quality animal products	01		18	18		02	02	20
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	18	18	-	02	02	20
Design and development of low/minimum cost diet	01	-	18	18	-	02	02	20
Storage loss minimization techniques	01		18	18		02	02	20
Value addition	03	-	54	54	-	06	06	60
Location specific drudgery reduction technologies	01	-	18	18	-	02	02	20
Rural Crafts	01		18j	18		02	02	20
<b>VII Plant Protection</b>								
Integrated Pest Management	15	270	-	270	30	-	30	300
Integrated Disease Management	01	18	-	18	02	-	02	20
<b>TOTAL</b>								
<b>(B) RURAL YOUTH</b>								
Bee-keeping	01	12	-	12	03	-	03	15
Integrated farming								
Seed production	01	12	-	12	03	-	03	15
Production of organic inputs	01	12	-	12	03	-	03	15
Integrated Farming (Medicinal)								
Planting material production	01	12	-	12	03	-	03	15
Vermi-culture	01	12	-	12	03	-	03	15
Sericulture	03		54	54		06	06	60
Nursery Management of Horticulture crops	01	12	-	12	03	-	03	15
Value addition	02	-	24	24	-	06	06	30
Dairying	03	54		54		06	06	60
Tailoring and Stitching	01	15		15		-	-	15
<b>TOTAL</b>	<b>15</b>	<b>72</b>	<b>24</b>	<b>96</b>	<b>18</b>	<b>6</b>	<b>24</b>	<b>120</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	02	16	-	16	04	-	04	20
Integrated Pest Management	02	16	-	16	04	-	04	20
Integrated Nutrient management	02	16	-	16	04	-	04	20
Protected cultivation technology	02	16	-	16	04	-	04	20
Group Dynamics and farmers organization	02	-	16	16	-	04	04	20
Capacity building for ICT application	02	16	-	16	04	-	04	20
Livestock feed and fodder production	03		54	54		06	06	60
Women and Child care	03		54	54		06	06	60
Low cost and nutrient efficient diet designing	01	-	08	08	-	02	02	10
Production and use of organic inputs	01	-	08	08	-	02	02	10
Any other (Pl. Specify)	01	08	-	08	02	-	02	10
<b>Total</b>	<b>21</b>	<b>88</b>	<b>32</b>	<b>120</b>	<b>22</b>	<b>8</b>	<b>30</b>	<b>150</b>
<b>G. TOTAL</b>				<b>109</b>				
	<b>72</b>	<b>894</b>	<b>200</b>	<b>4</b>	<b>126</b>	<b>30</b>	<b>156</b>	<b>1250</b>

Details of training programmes attached in **Annexure –I**

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	400	80	480	10	05	15	410	85	495
Kisan Mela	02	650	150	800	25	05	30	675	155	830
Kisan Ghosthi	07	550	50	600	20	10	30	570	60	630
Exhibition	04	6000	1000	7000	40	10	50	6040	1010	7050
Film Show										
Farmers Seminar	06	50	10	60	02	-	02	52	10	62
Workshop										
Group meetings										
Lectures delivered as resource persons	94	800	150	950	-	-	-	800	150	950
Newspaper coverage	80									Mass
Radio talks	08	-	-	-	-	-	-	-	-	Mass
TV talks / Chaupal	06	-	-	-	-	-	-	-	-	Mass
Popular articles	10	-	-	-	-	-	-	-	-	Mass
Extension Literature	12	-	-	-	-	-	-	-	-	12000
<b>Advisory Services</b>	20	-	-	-	-	-	-	-	-	200
Scientific visit to farmers field	480	1800	200	2000	200	25	225	2000	225	2225
Farmers visit to KVK	900	-	-	-	-	-	-	-	-	900
Diagnostic visits	50	500	50	550	25	05	30	525	55	580
Exposure visits	10	950	50	1000	-	-	-	950	50	1000
Ex-trainees Sammelan		-	-	-	-	-	-			
Soil health Camp	04	-	-	-	-	-	-	-	-	100
Animal Health Camp	04	530	20	550	40	10	50	570	30	600
Agri mobile clinic	02	140	40	180	15	05	20	155	45	200
Soil test campaigns	05	100	20	120	05	-	05	105	20	125
Farm Science Club	01	-	-	-	-	-	-	-	-	30
Conveners meet										
Self Help Group	04	-	-	-	-	-	-	-	-	100
Conveners meetings										
Mahila Mandals	06	-	-	-	-	-	-	-	-	150
Conveners meetings										
Celebration of important days (specify)	04	-	-	-	-	-	-	-	-	200
Pre Kharif workshop/ Awareness	01	1010	150	1160	30	10	40	1040	160	1200
Pre Rabi workshop/ Awareness	01	1400	160	1460	30	10	40	1430	170	1500
<b>Total</b>	<b>1731</b>	<b>14880</b>	<b>2130</b>	<b>16910</b>	<b>442</b>	<b>95</b>	<b>537</b>	<b>15322</b>	<b>2225</b>	<b>31127</b>

**3.5 Target for Production and supply of Technological products  
SEED MATERIALS**

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>CEREALS</b>	Paddy	PB-1509 PB-1121	150 qt.
	Wheat	PBW-550 HD-3086 HD-2967	200 qt.
<b>OILSEEDS</b>	Mustard	RH-749, Griraj	50 qt
<b>PULSES</b>	Urd	-	50 qt
			<b>450 qt</b>

**PLANTING MATERIALS**

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>	Papaya	Pusa nanha	100
	Mango	Amarpali, Dhasari	50
	Jamun	Rah Jamun	50
<b>SPICES</b>			
<b>VEGETABLES</b>	Chilli,	Pusa Sadabahar	500
	Tomato	PED	500
	Onion	N-53	15000
	Brinjal	Pusa uttam	1000
	Cucurbits	Pusa Naveen, Satputia, Japanese long green, etc	1050
	Cauliflower	Pusa Asugi, Snow ball-1	1000
<b>ORNAMENTAL CROPS</b>	Marigold	Pusa Naragi	500
<b>Others</b>			
		<b>Total</b>	<b>20000</b>

**b. Literature to be Developed/Published**

**(D) KVK News Letter**

Date of start :  
Number of copies to be published :

**(B) Literature developed/published**

S.No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	35
3	News letters	15
4	Training manual all discipline	05
5	Popular article	20
6	Extension literature	25
<b>Total</b>		<b>110</b>

**(C) Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			

**3.7. Success stories/Case studies identified for development as a case - 03**

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) Discussions on Problem with farmers
- b) PRA
- c) Discussion with line departments.
- D) Field level observations

**Rural Youth**

- a) Discussions on Problem with farmers
- b) PRA
- c) Discussion with line departments.
- d) Field level observations

**In-service personnel**

- a) Discussion
- b) Field level observations

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT:**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

**For FLD :**

- xxiv) New variety/technology
- xxv) Poor yield at farmers level
- xxvi) Existing cropping system
- xxvii) Others if any

**3.10 Field activities**

- i. Name of villages identified/adopted with block name (from which year) -

Sl. No.	Taluk	Name of the block	Name of the village	Adopted Year
1.	Ghaziabad	Rajapur	Kushailia Kanauja	2018 2018
2.		Muradnagar	Dhedha	2018
3		Bhojpur	Amirpur Badhayla	2018

- ii. No. of farm families selected per village : **30**
- iii. No. of survey/PRA conducted : **01 in each village**
- iv. No. of technologies taken to the adopted villages- **02**
- v. Name of the technologies found suitable by the farmers of the adopted villages:- **Micro**

**Nutrients response in Pulse and Vegetable for improving quality as well as quantity of product.**

vi. Impact (production, income, employment, area/technological– horizontal/vertical)- **Increased production and maintain soil health.**

vii. Constraints if any in the continued application of these improved technologies- **Marketing**

### 3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : 2011

2. List of equipments purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1	Ph meter Digital Eutech Make	1	21900.00
2	Conductivity meter Elico CM-183	1	19700.00
3	Mechanical Shaker Remi RS 24 AC	1	53000.00
4	Oven (Model- v121018)	1	25100.00
5	Kejeldhal Digestion & distillation Unit (Combind) JSGW	2	58853.00
6	Physical Balance	1	21110.00
7	Chemical Balance (Single Pan Balance, Cap 220 g) Sorturius Model No. BS- 2245)	1	82620.00
8	Water distillation Unit	1	125000.00
9	Spectro Photometer	1	126500.00
10	Flame Photometer, Systronics Model-128	1	41900.00
11	Hot Plate Tarson Model -5030	1	7100.00

### 3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	1200	1200	45	
Water				
Plant				
<b>Total</b>	<b>1200</b>	<b>1200</b>	<b>45</b>	

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Deptt. of Agriculture	Diagnostic survey, training, gosthi/Seminar/ Farmers Fair
2.	Deptt. of Horticulture	Participation in meeting/demonstration/training/ Farmers Fair
3.	NGO	Trainings/Gosthi
4.	ATMA	Trainings, Meeting, Demonstration, Validation trial
5.	IFFCO, KRIBHCO	Trainings/Gosthi
6.	PCDF	Trainings/Gosthi
7.	NEDA, PNB (SHGs)	Trainings/Gosthi
8.	Distt. Cooperative Bank	Trainings/Gosthi
9.	Deptt. of Fisheries	Trainings/Gosthi
10.	Deptt. of BalVikashParojena	Trainings/Gosthi/Seminar
11.	Deptt. of Animal Science	Trainings/Seminar/Animal Exhibition
12.	BhoomiSanrakshanAdhikari	Trainings/Gosthi
13.	Dairy Development	Trainings/Gosthi
14.	NABARD	Workshop/Training
15.	DASP	Exposure visit/Training/Gosthi

**4.2 Details of linkage with ATMA**

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage
1	Training	Resource Person
2	FTT	Resource Person and Technical Support

**4.3 Give details of programmes under National Horticultural Mission**

S. No.	Programme	Nature of linkage
1	Protective cultivation technique of vegetables crops	Training
2	Cultivation techniques of hybrid chilly and after harvest management	Training
3	Cultivation techniques of Gladiouls and tuberose and after harvest management	Training
4	Cultivation techniques of spices crops and after harvest management	Training
5	Cultivation techniques of mango, guava and aonla and after harvest management	Training

**4.4 Nature of linkage with National Fisheries Development Board**

S. No.	Programme	Nature of linkage
1		
2		

**5.0 Utilization of hostel facilities**

S. No.	Programme	No. of days
1	Department of Horticulture and Sugarcane	20
2	RAWE Student (B.Sc Ag Final Year)	180
3		
4		
	<b>Total</b>	<b>200</b>

**6.0 Convergence with departments :****7.0 Feedback of the farmers about the technologies demonstrated and assessed :**

- 1 Supply of Inputs proper time and proper quantity as per recommended by Scientists
- 2 Market oriented technology

**8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/ universities:**

## Training Programme

## i) Farmers &amp; Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
05.02.23	PF	Scientific cultivation of summer green gram and black gram.	01	18	-	18	02	-	02	20
15.05.23	PF	Techniques of growing healthy paddy seedling.	01	18	-	18	02	-	02	20
01.07.23	PF	Techniques for getting maximum yield from basmati Rice.	01	18	-	18	02	-	02	20
02.10.23	PF	Advance production technology of mustard.	01	18	-	18	02	-	02	20
<b>Horticulture</b>										
20.01.23	PF	INM in Cucurbitaceous crops.	01	16	02	18	02	-	02	20
11.03.23	PF	Intercropping in sugarcane with Okra/marigold in Spring season.	01	18	-	18	02	-	02	20
22.05.23	PF	Cucurbitaceous production technique on machan.	01	18	-	18	02	-	02	20
21.06.23	PF	Scientific cultivation of Banana.	01	18	-	18	02	-	02	20
24.07.23	PF	Vegetable nursery production technique.	01	18	-	18	02	-	02	20
24.09.23	PF	Off-season vegetables production technique.	01	18	-	18	02	-	02	20
04.11.23	PF	Grading and standardization of vegetables crops	01	18	-	18	02	-	02	20
<b>Livestock production</b>										
09.06.23	PF	Feed management in piggery.	01	18	-	18	02	-	02	20
12.07.23	PF	Deworming	01	17	-	17	03	-	03	20
23.11.23	PF	Integration of dairy in IFS module	01	16	-	16	04	-	04	20
05.01.23	PF	Causes & remedies of infertility in milch animals	01	15	-	15	05	-	05	20
15.06.23	PF	Cow based natural farming.	01	18	-	18	02	-	02	20
<b>Agril. Engg.</b>										
				-	-	-	-	-	-	-
<b>Home Sc.</b>										
07-01-23	PF	Minimization of nutrients loss while processing of foods.	01	-	18	18	-	02	02	20
15-03-23	PF	Importance of millets' in our diets ,and its importance.	01	-	18	18	-	02	02	20
07-04-23	PF	Fortification in locally available food stuffs.	01	-	18	18	-	02	02	20
19-05-23	PF	Production of fresh vegetables in kitchen garden by organic method	01	-	18	18	-	02	02	20
<b>Plan Protection</b>										
16.01.23	PF	IPM in Pulses.	01	18	-	18	02	-	02	20
17.04.23	PF	Bio control measures in Paddy.	01	18	-	18	02	-	02	20
23.07.23	PF	IDM in wheat crop	01	18	-	18	02	-	02	20
07.10.23	PF	Control of root knot nematodes in Vegetables.	01	18	-	18	02	-	02	20
<b>Agro-Forestry</b>										
<b>Soil Health</b>										
11.01.23	PF	Importance use of bio fertilizer to increase the production.	1	16	-	16	4	-	4	20
12.04.23	PF	Importance of green manuring for fertility management.	1	15	-	15	5	-	5	20

## i) Farmers &amp; Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
16.02.23	PF	INM in Sugarcane.	01	18	-	18	02	-	02	20
05.03.23	PF	Dhaincha green manuring for curtailing Fertilizer- N in Rice.	01	18	-	18	02	-	02	20
05.04.23	PF	Advance production technology of summer green gram and black gram.	01	17	-	17	03	-	03	20
10.04.23	PF	Integrated weed management in sugarcane.	01	18	-	18	02	-	02	20
15.05.23	PF	How to grow healthy paddy seedling.	01	18	-	18	02	-	02	20
10.06.23	PF	Integrated weed management in Paddy.	01	17	-	17	03	-	03	20
30.06.23	PF	INM in Paddy	01	18	-	18	02	-	02	20



20.08.23	PF	Advance production technology of mustard.	01	18	-	18	02	-	02	20	
02.10.23	PF	Advance production technology of Lentil.	01	18	-	18	02	-	02	20	
01.11.23	PF	Integrated weed management in Wheat.	01	18	-	18	02	-	02	20	
<b>Horticulture</b>											
14.02.23	PF	Scientific cultivation of Papaya.	01	16	02	18	02	-	02	20	
11.04.23	PF	Scientific cultivation of MAP plants.	01	18	-	18	02	-	02	20	
11.06.23	PF	Establishment of new orchards.	01	18	-	18	02	-	02	20	
17.07.23	PF	Tomato cultivation with Bower method.	01	16	02	18	02	-	02	20	
11.08.23	PF	Use of micro and macro nutrient management in Mango.	01	16	02	18	02	-	02	20	
09.10.23	PF	Production technique of Garlic and Onion.	01	18	-	18	02	-	02	20	
16.12.23	PF	Vegetable nursery production technique of low cost poly house,	01	18	-	18	02	-	02	20	
<b>Agril. Engg..</b>											
<b>Live Stock Production</b>											
11.04.23	PF	Layout of IFS	01	16		16	4		4	20	
15.05.23	PF	Importance of perennial fodder crops in IFS module	01	17		17	3		3	20	
25.05.23	PF	Feed mgt. of dairy calves	01	18		18	2		2	20	
11.07.23	PF	Poultry management for karaknath	01	17		17	3		3	20	
09.09.23	PF	Improve techniques of goatry	01	16		16	4		4	20	
16.10.23	PF	Importance of UMMB	01	17		17	3		3	20	
22.11.23	PF	Mgt. of repeat breeder animals	01	18		18	2		2	20	
18.12.23	PF	Animal heat detection through cryscope	01	19		19	1		1	20	
<b>Home Sc.</b>											
24-07-23	PF	Natural farming..	01			18	18		02	02	20
15-09-23	PF	Storage of grains and storage loss minimization techniques.	01			18	18		02	02	20
27-10-23	PF	Nutrition sensitive balanced diet for children..	01			18	18		02	02	20
16.12.23	PF	Promotion of bio -fortified varieties..	01			18	18		02	02	20
<b>Plant Protection</b>											
25.01.23	PF	IPM in mango orchard	01	18	-	18	02	-	02	20	
16.02.23	PF	IPM in solanaceous vegetables	01	18	-	18	02	-	02	20	
08.03.23	PF	Natural farming techniques.	01	18	-	18	02	-	02	20	
11.03.23	PF	IDM in bitter gourd	01	18	-	18	02	-	02	20	
07.04.23	PF	IPM in zaid pulses	01	18	-	18	02	-	02	20	
10.06.23	PF	Different methods of seed and soil treatment	01	18	-	18	02	-	02	20	
12.06.23	PF	Diseases management in paddy nursery	01	18	-	18	02	-	02	20	
07.07.23	PF	Use of Trico card in sugarcane	01	18	-	18	02	-	02	20	
11.08.23	PF	Methods of safe grain storage	01	18	-	18	02	-	02	20	
19.10.23	PF	IPM in potato crop	01	18	-	18	02	-	02	20	
28.12.23	PF	IDM in mustard	01	18	-	18	02	-	02	20	
08.12.23	PF	IPM in cabbage and cauliflower	01	18	-	18	02	-	02	20	
<b>Agro-Forestry</b>											
<b>Soil health</b>											
09.02.23	PF	Nutrient management for fruit crop.	01	18	-	18	02	-	02	20	
15.05.23	PF	Management & reclamation of problematic soils.	01	18	-	18	02	-	02	20	
05.07.23	PF	Application of soil health card to calculate fertilizer requirement.	01	17	-	17	03	-	03	20	
10.08.23	PF	INM in pulses crops.	01	18	-	18	02	-	02	20	
11.09.23	PF	Importance of soil testing to maintain the soil health.	01	18	-	18	02	-	02	20	
13.11.23	PF	Organic training.	01	17	-	17	03	-	03	20	

## ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
<b>Crop Production</b>											
Sugarcane	Sapling production	Technique of Sugarcane Sapling production.	Feb.	05	13	-	13	02	-	02	15
Vermicompost	Organic input	Technique of Vermicompost production.	Sept.	05	13	-	13	02	-	02	15
<b>Horticulture</b>											
Fruit plants	Plant propagation techniques	Propagation techniques of fruit and ornamental plants.	July	05	13	-	13	02	-	02	15
Vegetable crop	Nursery Raising	Growing of vegetable nursery under low cost poly house.	Nov.	05	13	-	13	02	-	02	15



<b>Plant Protection</b>											
Mashroom Production	Mashroom Production	Production technology of Mashroom.	Aug	05	13	-	13	02	-	02	15
Bee keeping	Bee keeping	Bee keeping	Oct.	05	13	-	13	02	-	02	15
<b>Home Science</b>											
Vegetable	Value Addition	Value addition in potato.[Different products from potatoes .	March.	05		13	13		02	02	15
Tailoring and stitching	Tailoring and stitching	Preparation of low cost cloth bags with the use of waste material.	May	05		13	13		02	02	15
Vegetable	Value Addition	Value addition in fruits and vegetables.	August	05		13	13		02	02	15
Tie and Dye	Tie and Dye	Nutritive products from various millets.	Nov.	05		13	13		02	02	15
<b>Live Stock Production</b>											
Poultry	Poultry	Poultry farming.	Aug.	5	8	0	8	2	0	2	10
Fishery	Fishery	Integrated fish farming.	Nov.	5	7	0	7	3	0	3	10
Dairy	Disease mgt.	Animal health Management.	Feb.	5	7	0	7	3	0	3	10
<b>Soil health</b>											
Soil health	Soil health	Marketing production of vermicompost.	March	05	13	-	13	02	-	02	15
Soil health	Soil health	Soil sampling techniques and soil health card .	Oct.	05	13	-	13	02	-	02	15

### iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
25.02.23	Ex. Person	Technological advances in Sugarcane cultivation.	01	13	-	13	02	-	02	15
20.05.23	Ex. Person	Technological advances in basmati rice cultivation.	01	13	-	13	02	-	02	15
25.08.23	Ext. Person	Technological advances in Toria / Mustard cultivation	01	13	-	13	02	-	02	15
05.11.23	Ext. Person	Technological advancement in Wheat cultivation.	01	13	-	13	02	-	02	15
<b>Horticulture</b>										
16.01.23	Ext. Person	INM of Cucurbitaceous vegetables.	01	13	-	13	02	-	02	15
17.06.23	Ext. Person	Use of micro and macro nutrient management in Mango.	01	13	-	13	02	-	02	15
20.10.23	Ext. Person	Scientific cultivation of tomato.	01	13	-	13	02	-	02	15
23.11.23	Ext. Person	Protective cultivation of vegetable crops under low tunnel polyhouse	01	13	-	13	02	-	02	15
<b>Plant Protection</b>										
25.07.23	Ex. Person	Application of bio agent.	01	13	-	13	02	-	02	15
28.09.23	Ex. Person	Use of pesticides in pigeon pea crop.	01	13	-	13	02	-	02	15
22.11.23	Ex. Person	Effect of pesticides on honey bees and their importance in agriculture.	01	13	-	13	02	-	02	15
<b>Home Science</b>										
09-02-23.	Ext. Person	Importance of kitchen gardening and terrace gardening .	01		13	13		02	02	15
19-05-23	Ext. Person	Poshsk thali and its nutritive value..	01		12	12		03	03	15
25-07-23	Ext. Person	Schemes run by government of India for rural people.	01		13	13		02	02	15
20-12-23	Ext. Person	Personal and environmental hygiene and sanitation education for rural. .	01		13	13		02	02	15
<b>Live Stock Production</b>										
14.04.23	Ext. Person	Innovative technquines of animals science	1	7	0	7	3	0	3	10
25.07.23	Ext. Person	Deworming schedule in milch animals	1	6	0	6	4	0	4	10
12.10.23	Ext. Person	Vaccination schedule in milch animals	1	7	0	7	3	0	3	10
<b>Soil health</b>										
09.06.23	Ext. Person	Importance of organic inputs for crop production.	01	13	-	13	02	-	02	15
01.09.23	Ext. Person	Importance of soil testing.	01	13	-	13	02	-	02	15
12.12.23	Ext. Person	Importance of soil health & sustainable agriculture.	01	13	-	13	02	-	02	15

## Action Plan 2023

### Natural Farming Interventions

<b>S.N</b>	<b>Proposed Activities</b>	<b>Proposed Number</b>	<b>No. of Participants</b>
1.	Farmers training cum Awareness Programme.	12	240
2.	Vocational Training	02	30
3.	Farmers – Scientist interaction	02	50
4.	Women group / FPO training	03	60
5.	Trial	02	06
6.	Farmers field Demonstration	06	06
7.	Exposure Visit	02	100



# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA HAPUR**

# ACTION PLAN

## (Jan., 2023 to Dec., 2023)

### 1. GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E-mail	Website
	Office	Fax		
Krishi Vigyan Kendra Babugarh, Hapur (U.P.) - 245101	-	-	hapurkvk@gmail.com	www.hapur.kvk4.in

#### 1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E-mail	Website
	Office	FAX		
S.V.P.U. & T. Meerut (U.P.) - 250110	0121- 2888540  2888511	0121- 2888540	deesvpuat2014@gmail.com	www.svbpmeerut.ac.in

1.2.b. Status of KVK website : Yes([hapur.kvk4.in](http://hapur.kvk4.in))

1.2. c. No. of Visitors (Hits) to your KVK website (as on today) :514







1.2.d.Status of ICT Lab at your KVK : No






#### 1.3. Name of the Sr. Scientist & Head with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. Hans Raj Singh	-	9411263753	hapurkvk@gmail.com

1.4. Year of sanction: 2018(ICAR, Letter No.A.Extn.7/4/2016-AE-II 08June 2018)

### 1.5. Staff Position (as on 1st April, 2021)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay scale (Rs.)	Grade pay	Present Basic	Date of Joining	Permanent / Temporary	Category	Mobile No.	Email id	Please attach recent photograph
1.	Sr. Scientist & Head	Dr.Hansraj Singh	Prof. & Head	Agronomy	37400-67400	10000	199600	01.7.10	Permanent	Gen.	+91-9411263753	<a href="mailto:hapurkvk@gmail.com">hapurkvk@gmail.com</a>	
2.	Subject Matter Specialist	Dr. P. K. Madke	SMS/Asst. Prof	A.H & Dairying	15600-39100	8000	101100	27.06.08	Permanent	SC	+91-9012439468		
3.	Subject Matter Specialist	Dr. Laxmi kant	SMS/Asst. Prof.	Plant breeding	15600-39100	8000	101100	01-01-2009	Permanent	Gen.	9457085593	<a href="mailto:laxmikant1965@yahoo.co.in">laxmikant1965@yahoo.co.in</a>	
4.	Subject Matter Specialist	Dr. Virendra Pal	SMS/Asst. Prof.	Horticulture	15600-39100	8000	101100	20-08-2008	Permanent	OBC	9456662212	<a href="mailto:dvpgangwar77@gmail.com">dvpgangwar77@gmail.com</a>	
5.	Subject Matter Specialist	Dr. Abhinav Kumar	SMS	Agronomy	15600-39100	5400	56100	01.07.2022	Provision	Gen	9415348240		
6.	Subject Matter Specialist	Dr. Vinita Singh	SMS	Home sci.	15600-39100	5400	56100	11.07.22	Provision	Gen	8840836503	<a href="mailto:vinitasrfbhu13@gmail.com">vinitasrfbhu13@gmail.com</a>	

7.	Subject Matter Specialist	Dr. Neelam	SMS	Agri. Ext.	15600-39100	5400	56100	01.09.22	Provision				
8.	Farm Manager	Dr. Ashok	Farm Manager	Soil Science	9300-34800	-	56900	30-7-2007	Permanent	Gen.	9412405845	drashoksengar123@gmail.com	
9.	Prog. Assistant	Sri. Nagendra Pratap Singh	Prog. Assistant	Computer	9300-34800	-	56900	01-09-2007	Permanent	SC	+91-9412060554	<a href="mailto:nagendrapratap1973@gmail.com">nagendrapratap1973@gmail.com</a>	
10.	Accountant / Superintendent	Sri. R.K. Garg	Accountant / Superintendent	Accounts	9300-34800	Addi. charge	56900	26.12.08	Permanent	Gen	-		
11.	Driver	Shri Mukesh Kumar	Driver	Driver	5200-20200	-	38100	08.12.13	Permanent	SC	+91-9458739410	-	
12.	Supporting staff	Shri T.B.Ale	Supporting staff	Cook	2550-3290	-	37500	01.07.1988	Permanent	-	+91 9997611921		

**1.6. Total land with KVK (in ha): 12.0**

S. No.	Item	Area (ha)
1	Under Buildings (Adim. + Farmer's Hostel + Residence + Demonstration Units)	2.0
2.	Under Crops	10.0
3.	Barran Land (Problematic & sodicity)	-
4.	Orchard/Agro-forestry	0.0
5.	Land encroachment	
5.	<b>Total</b>	<b>12.0</b>

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage						Requ red Now	Nee ds reno vati on	
			Complete			Incomplete					
			Completi on Date	Plinth area (Sq.m)	Expendit ure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of constructi on			
1.	Administrative Building	ICAR		510					Comple ted.		
2.	Farmers Hostel	ICAR		300							
3.	Staff Quarters (6)	ICAR		431							
4.	Demonstration Units (2)	ICAR		160							
5	Fencing	ICAR		2000 R/M							
6	Rain Water harvesting system	-	-	-							
7	Threshing floor	ICAR		300							
8	Farm godown	ICAR		60							
9	Irrigation Channel	ICAR		1000 M							

**B) Vehicles - NA**

Type of vehicle	Year of purchase	Cost (Rs.) Lac	Total kms. Run	Present status
Tractor	Transfer from KVK GB Nagar	-	161 hours	Working
Bolero Jeep	March 2022	8.0	10000	Working
Motor cycle				

**C) Equipments & AV aids - NA**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
L.C.D. Projector			
U.P.S.			
Solar (Lalten)			

Electric Padestral Fan			
Padestral Fan			
11 cultivator			
14 Tawa Harrow			
Leveller			
Nepseeke Spray (Plastic)			
Foot Sprayer			
Disk Bund Farmer			
Seed Drill			
Hand Rotary Fan			
Trailer for Tractor			
Hand Vinoi Fan			
S.D. Memory cord of LCD with Recorder			
Solar domestic light (Model IV)			
Computer & Printer	March 2022	0.50	Working

**1.8. A). Details of SAC meetings to be conducted in the year**

Sl.No.	Date
1. Scientific Advisory Committee	Nov, 2023(Tentative)



## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	<b>Major crops</b> – Paddy, wheat, mustard, sugarcane, Aehar, Urd, potato, Cabbage & Chilly
2.	<b>Crop rotation</b> – Rice- sugarcane, Rice- wheat, urd-mustard-Cabbage, Potato-Maize, Urd – Wheat- Jowar(Fodder).
3.	Agriculture + Hort. + Livestock
4.	<b>Crop+ Dairy +Horticulture+ Bee keeping +Poultry/Fisheries/Mushroom, Vermi compost</b>
5.	Landless + Livestock

### 2.2 Description of agro ecological situations (based on soil and topography)

S. No.	AES	Characteristics of A.E.S.	Major commodities	Farming system	Block
1	I- Central western plain zone of the district	-Loam and clay loam with high fertility - medium rainfall	Rice, wheat, Cabbage, sugarcane, chili, cauliflower, cabbage, mango, guava, buffalo, cows	Paddy, wheat, sugarcane+ Poplar+ A.H. (Cow, buffalo)	Hapur, Gharmukteshwar, Dholana,
2	II. Central western Plain zone/ Central east southern region of the district	-Sandy loam to loam soil of medium fertility - medium rainfall	Rice, wheat, mentha, sugarcane, mustard as well as vegetables (pea, Cabbage, chili, tomato, potato) and mango fruit, buffalo, cows	Paddy, wheat, potato, sugarcane, Cabbage, mustard-based systems + horticulture + A.H.	Simbhawali
3	III Central western plain zone/ central region of the district	-Sandy loam to loam and clay soil of medium fertility - medium rainfall	Rice, wheat, Cabbage, sugarcane, potato, guava, mango, poplar etc.	Paddy, wheat, sugarcane, Cabbage based systems + poplar + A.H.+ Hort.	Gharmukteshwar

### 2.4 Soil types

Sl. No	Soil type	Characteristics	Area ('000ha)
1	Clay loam	Clay loam	11.4
2	Sandy loam	Sandy loam	24.7
3	Loam	Loam	40.8
	<b>Total</b>		76.9

### 2.4. Area, Production and Productivity of major crops cultivated in the district (2021-22)

S. No	Crop	Area (ha)	Production (MT)	Productivity (q /ha)
<b>A</b>	<b>FIELD CROPS INCLUDING OIL SEEDS AND PULSES</b>			
1.	Wheat	42279	187000	44.23
2.	Lentil	231.00	223.00	9.64
3.	Toria	2238.00	2293	10.25
4.	Mustard	2404	2902	12.07
5.	Paddy (Rice)	28458	56667.00	29.33
6.	Maize	1995	48837.6	24.48

7	Urd	1122.00	6911.52	06.16
8	Moong	6500.00	290.55	04.47
9	Arhar	1186.00	2488.00	08.00
10	Sugarcane	36.4		785.6
<b>B</b>	<b>VEGETABLES</b>			
1.	Potato	1071	24036	230.03

## 2.5 Weather data (rainfall)Dist. Hapur

S. No.	Month	2021	2022
1	Jan	34.46	9.0
2	Feb	15.15	13.50
3	March	56.38	22.66
4	April	25.0	16.1
5	May	3.3	-
6	June	194.78	-
7	July	341.60	-
8	Aug	441.50	10.1
9	Sept.	192.0	-
10	Oct.	22.0	-
11	Nov.	0.00	-
12	Dec.	21.8	-
	Total rainfall	1348.11	71.36
	Average rainfall	112.34	14.27

## 2.6 Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	40263	Data not available	9.56Litre Milk / day
<i>Indigenous</i>	-		
<b>Buffalo</b>	161321		5.90 / day
<b>Cow</b>	40263		9.56Litre Milk / day
<b>Sheep</b>			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	1335		0.50 / day
<b>Goats</b>	37523		0.32 / day
<b>Pigs</b>			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	4675	-	-
<b>Rabbits</b>	Data not available	Data not available	Data not available

Hens			
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			
Fish			

## 2.7 Details of operation area/villages

S. No.	Taluk/Village	Name of block	Major crops & enterprises	Major problem identified	Identified thrust area
1	Upeda	Hapur	Paddy, Wheat, Sugarcane Pea, Mustard, Poplar, Dairy	Low Productivity of paddy, wheat, mustard, urd etc.  The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely.	Diversification in agriculture  Lack of high yielding varieties. Less availability of plant protection measures.
2	Sikhera	Sambhawali	Paddy, Wheat, Sugarcane Banana, Mustard, Poplar, Dairy	Low Productivity of paddy, wheat, mustard, urd etc.  The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely. Low yield of paddy, wheat, mentha & mustard	Diversification in agriculture Lack of high yielding varieties. Less availability of plant protection measures.  Heavy infestation of weeds.
3	Badgpur	Hapur	Paddy, Wheat, Sugarcane Banana, Mustard, Dairy, Chilli, bottle guard, colocacia	Poor milk production and infertility in animals.  Lack of knowledge of quality planting material and production technology in horticultural crops.  Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture.  Use of improved variety and IPM, ICM.  Heavy infestation of weeds.

4	Dhatiyana	Sambhawali	Paddy, Wheat, Sugarcane Papaya, Mustard, Poplar, Dairy	Use of local varieties of different crops by the farmers.  Pest problems  Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture.  Use of improved variety and IPM, ICM.  Heavy infestation of weeds.
5	Atoota	Sambhawali	Paddy, Wheat, Sugarcane Mustard, Dairy, Poplar,Chilli, Onion, Gartic, Cucurbits.	Lack of knowledge of improved varieties of different crops. - Pest problems - Lack of knowledge of inter cropping - Crop management & nutrient management. - Disease & insect control of cereals and vegetable crops. - Poor milk production and infertility in animals	Diversification in agriculture. Use of improved varieties.  Inter cropping technique. Crop management.  Weed control  Unawareness of diseases and insect control.
6	Simmroli	Hapur	Paddy, Wheat, Sugarcane Mustard, Dairy, Poplar,Chilli, Onion, Gartic, Cucurbits.	Lack of knowledge of improved varieties of different crops. - Pest problems - Lack of knowledge of value addition& nutrient management in women. - Disease & insect control of cereals and vegetable crops. - Poor milk production and infertility in animals	Diversification in agriculture. Use of improved varieties.  Value addition & Nutri thali.  Weed control  Unawareness of diseases and insect control. Dairy management

## 2.8 Priority/ Thrust Areas

S.N.	Crop/ Enterprise	Thrust area
1.	Rice/Wheat	Integrated plant nutrient management in rice -wheat cropping.
2.	Rice/Wheat	Integrated weed management in rice -wheat cropping
3.	Pulses	Enhancing the area under Kharif & Rabi pulses
4.	Oil seeds	Enhancing the area under Kharif & Rabi oil seeds.
5.	Cereals/Pulses/ Oilseeds	IPM in crops
6.	Cereals/Pulses/ Oilseeds	Promotion of new released varieties.
7.	Seed production	Promotion of seed production in different crops.
8.	Mango	Rejuvenation of old mango orchards
9.	Guava	Management of Guava orchards.
10	Vegetables	Promotion of organic farming in vegetables.
11	Floriculture	Promotion of income generating crops.
12	Bee-keeping	Popularization of Bee-keeping
13	Vermi compost	Popularization of Vermi composting

## 3 .TECHNICAL PROGRAMME

### 3. A. Details of targeted mandatory activities by KVK during Jan. 2023-Dec.2023

OFT		FLD			
No. of OFTs	No. of Farmers	Crops		Livestock	
		Area (ha)	No. of Farmers	No. of unit	No. of Farmers
09	42 Farmer & 8 Animals	45.2 ha.	145	2.0 ha. & 20 Animal	30

CFLD – NFSM Project	
Crops	
Area (ha)	No. of Farmers
40.0	100

Training		Extension Activities	
No. of Courses	No. of Participants	No. of activities	No. of participants
112	1940	362	5439

Seed Production (Qtl.)	Planting material (Nos.)	
	Vegetables	Hybrid Napier
400	20000	-

### **3 B Abstract of interventions to be undertaken**

S. No	Thrust areas	Crop/ Enterprise	Identified problem	Title of OFT if any	Title of FLD if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.	Title of Training, if any
1	Intercropping system	Sugarcane	Intercropping	Assessment of suitable intercrop with S.cane in spring season	-	Importance of intercropping in sugarcane + Urd& Sugarcane as compare to sole crop	Field day	Seed of Urd	Importance of intercropping in sugarcane + Urd& Sugarcane as compare to sole crop
2	Weed Management	Maize	Infestation of weed in Maize field	Evaluation of Tembotrione herbicide in Kharif Maize.	-	Weed management in paddy	Field Day	Weedicide	- Integrated weed management
3	Intercropping system	Sugarcane	Intercropping	Assessment of suitable intercrop with S.cane in autumn season	-	Importance of intercropping in sugarcane + Mustard & Sugarcane as compare to sole crop	Field day	Seed of Mustard	Importance of intercropping in sugarcane + Mustard & Sugarcane as compare to sole crop
4	Varietal assessment	Paddy	-Use local varieties & low production	To assess the adoptability of newly released scented rice variety for higher yield.	-	Evaluation of improved varieties of paddy & seed production technique of paddy	-	Seed	Promotion of Variety
5	Varietal assessment of Variety	Wheat	-Poor quality seed & low production due to old	Assessment of new high yielding wheat varieties for NWPZ.	-	Wheat varieties & seed prod. tech. of wheat	-	Seed	Promotion of Variety DBW - 303

			variety						
6	Varietal assessment of Variety	Tomato	-Poor quality seed & low production due to old variety	Assessment of new high yielding variety of hybrid tomato.	-	Varieties of Tomato	-	Seed	Promotion of Variety Pusa Hybrid – 2
7	INM	Paddy	Low yield of paddy due to imbalance use of fertilizer	Assessment of nutrient in paddy crop on the basis of soil test.	-	Importance of micro nutrients in paddy crop		Fertilizer	INM
8	RESOURCE CONSERVATION	Wheat	Low organic matter in soil due to burning of residue.	Assessment of organic matter in soil	-	Importance of organic matter in soil for wheat crop.		Waste decomposer	Importance of organic matter in soil for wheat crop.
9	Management of orchards.	Mango	1.Low income from orchards  2.Low yield due to old age of plant	1.Evaluation of intercropping system of turmeric under mango orchard 2.Assessment of canopy management techniques of old orchard of Mango		Planning & layout of mango/ guava orchard  Nutrient management in mango  Rejuvenation of mango orchards  Fertilizer management in Mango orchard	INM in commercial fruits	Labour cost	
10	INM	Paddy	Low yield of paddy due to imbalance use of fertilizer	Assessment of nutrient in paddy crop on the basis	-	Importance of micro nutrients in paddy crop		Fertilizer	INM

				of soil test.					
11	Promotion of ICM	Urd	- Use of local/ own seed No use of weedicide	-	Demonstration of HYV & weed management	Crop production technology	Field day	-Seed -Weedicide - Sulphur - Insecticide	Integrated crop production
12	Promotion of ICM	Mustard	-No application of Sulphur & No use of weedicide	-	Demonstration of HYV+ weed & Sulphur application	Crop production technology	Field days	-Seed - Sulphur - insecticide - Fungicide	Importance of sulphur & Weed management in mustard
13	Promotion of ICM	Field Pea	- Use of local/ own seed No use of weedicide	-	Demonstration of HYV & weed management	Crop production technology	Field day	-Seed -Weedicide - Sulphur - Insecticide	Integrated crop production
14	Weed management	Paddy	Infestation of weed in paddy field	-	Control of weed management through Pyrazosulfuron 10 WP@ 375 gm/ha.	Weed management in paddy	Field day	Weedicide	- Integrated weed management
15	Weed management	Wheat	Infestation of weed in wheat field	-	Control of weed management through Carfantazone 50 w.p. @ 20 gm/ha.	Weed management in wheat	Field day	Weedicide	- Integrated weed management

16	IPM	Paddy	Brown plant hopper	-	Demons. efficacy of Buprofezin 25SC @ 1lit./ha. (Two spray)	Integrated pest management	Field day	Insecticide	IPM in paddy
17	Balance use of	Paddy	Imbalance	-	Use of water-	Importance of	Field day	Water	Balance use of



	fertilizers		use of fertilizers		soluble fertilizers in paddy	Water-soluble fertilizer in paddy		soluble fertilizer	fertilizers
18	Balance use of fertilizers	Wheat	imbalance use of fertilizer	-	Use of water-soluble fertilizers in wheat	Balance use of fertilizer in wheat	Field day	Water soluble fertilizer	Balance use of fertilizers
19	Promotion of HYV (Varietal Evaluation)	Paddy	Low yield due to old variety of Paddy	-	To demonstrate the increase yield through newly released variety of basmati rice (Pusa 1692)	High yielding	Field day	Seed	High yielding variety and seed production tech. of paddy
20	Promotion of HYV (Timely sown)	Wheat	Low yield due to old variety of wheat		Demo. of HYV of wheat (DBW 222)	High yielding variety and seed production tech. of wheat	Field day	Seed	High yielding variety and seed production tech. of wheat
21	Diversification in Farming systems	Marigold	Low yield due to old variety of Marigold		Introduction of marigold variety	Fertilizer management in Marigold crop.  Nursery raising of marigold	Field day	Seed	Fertilizer management in Marigold crop.  Nursery raising of marigold
22	Diversification in Farming systems	Onion	Low yield due to old variety of Onion		Introduction of Onion variety	Fertilizer management in onion crop.  Nursery raising of onion	Field day	Seed	Fertilizer management in onion crop.  Nursery raising of onion

23	Diversification in Farming systems	Garden Pea	Intercropping		Intercropping of garden pea with sugarcane	Sowing techniques of Garden pea.	Field day	Seed	Sowing techniques of Garden pea.
24	Diversification in Farming systems	Potato	Intercropping		Intercropping of potato with sugarcane	Management of crop residue	Field day	Seeds	Nursery raising of cucurbits
25	Promotion of HYV (Varietal Evaluation)	Okra	Low yield due to old variety of Okra		Introduction of Okra variety	Fertilizer management in okra crop.	Field day	Seed	Fertilizer management in okra crop.
26	Weed management	S.cane	Infestation of weed in Sugarcane	-	Control of weed management through Tembotrioen @ 250ml/ha.	Weed management in Sugarcane	Field day	Weedicide	- Integrated weed management
27	Feed and Fodder technology	Barseem	Use of Local variety	-	Use of improved variety of Barseem	Fodder production techniques	Field day	Seed	Green fodder production techniques in whole year
28	Feed and Fodder technology	Oat	Use of Local variety	-	Use of improved variety of Oat	Fodder production techniques	Field day	Seed	Green fodder production techniques in whole year
29	Animal Nutrition Management	Buffalo	Less lactation period due to not use of mineral mixture	-	Use of mineral mixture	Feed and fodder management	FLD and Training	Mineral mixture	Role of mineral mixture for control of sterility problem
30	Women Empowerment	Production of vermi-compost	Low income	-	Production of vermi-compost	Production of vermi-compost	FLD and Training	Worms	Technique of vermin compost production
31	Nutritional Security	Kitchen Garden	To additional income	-	Kitchen Garden	Production of organic vegetable	FLD and Training	Vegetable Seeds	Production of organic

						in kitchen garden (Kharif)			vegetable in kitchen garden
32	Nutritional Security	Kitchen Garden	To additional income	-	Kitchen Garden	Production of organic vegetable in kitchen garden (Kharif)	FLD and Training	Vegetable Seeds	Production of organic vegetable in kitchen garden

### **3.1 Technologies to be assessed and refined**

#### **A. 1 Abstract on the number of technologies to be assessed in respect of crops in respect of OFT**

Thematic areas	Cereals	Oil-seeds	Pulses	Commercial crops	Vegetables	Fruits	Flower	Plantation crops	Total
Varietal evaluation	2	-	-	-	1	-	-	-	3
Weed management	1	-	-	-	-	-	-	-	1
Integrated crop management	-	-	-	2	-	-	-	-	2
Integrated Nutrient management	1	-	-	-	-	1	-	-	2
Resource conservation technology	1	-	-	-	-	-	-	-	1
<b>TOTAL</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>9</b>

#### **A.2 Abstract on the number of technologies refined in respect of crops:**

#### **A.3 Abstract on the number of technologies to be assessed in respect of livestock/Enterprises in OFT -**

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Total
Nutrition management	1	-	-	-	-	-	-	1
Production & Management	1	-	-	-	-	-	-	1
<b>TOTAL</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>

## B. Details of On Farm Trial:

### OFT-1 INTEGRATED CROP MANAGEMENT

#### Sugarcane crop (Season - Zaid 2023)

Particulars	Contents
<b>Title</b>	Assessment of intercropping of Urdwith Spring planted S.cane.
<b>Problem diagnosed</b>	Low income due to Sole crop of S.cane
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Sugarcane alone) T <sub>2</sub> : Sugarcane+ Urd
<b>No. of farmers</b>	03
<b>Replications</b>	03 (0.40/Demo) total 1.20 ha.
<b>Critical inputs</b>	Urd seed @ 15 kg/ha .
<b>Production system</b>	Paddy-Wheat- Sugarcane
<b>Source of technology</b>	SVPU Agri. & Tech., Meerut
<b>Total Cost</b>	Rs. 8000/-
<b>Observation to be recorded</b>	i. No. of tillers (Main crop) ii. Cane yield (q/ha) iii. Inter crop yield(q/ha) iv. CEY v. Relative Economics.
<b>Name of Scientist</b>	Dr. H.R. Singh Prof. (Agronomy) Dr. Abhinav Kumar, SMS(Agronomy)

### OFT-2 WEED MANAGEMENT

#### Maize crop (Season – Kharif 2023)

Particulars	Contents
<b>Title</b>	Evaluation of Tembotrione herbicide in Kharif Maize.
<b>Problem diagnosed</b>	Low efficiency of existing herbicide
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Atrazine) Post emergence @ 2.25lit/ha. T <sub>2</sub> : Tembotrione @ 285ml/ha.
<b>No. of farmers</b>	03
<b>Replications</b>	03 (0.40/Demo) total 1.20 ha.
<b>Critical inputs</b>	Tembotrione @ 285ml/ha.
<b>Production system</b>	Mazie-Wheat
<b>Source of technology</b>	SVPU Agri. & Tech., Meerut
<b>Total Cost</b>	Rs. 5000/-
<b>Observation to be recorded</b>	i. Grain yield (q/ha.) ii. Straw yield (q/ha) iii. Weed population iv. Relative Economics.
<b>Name of Scientist</b>	Dr. H.R. Singh Prof. (Agronomy)/ Dr. Abhinav Kumar, SMS (Agronomy)

### OFT-3 INTEGRATED CROP MANAGEMENT

#### Sugarcane crop (Season – Rabi 2023-24)

Particulars	Contents
<b>Title</b>	Assessment of intercropping of Mustard with Autumn planted S.cane.
<b>Problem diagnosed</b>	Low income due to Sole crop of S.cane
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Sugarcane alone) T <sub>2</sub> : Sugarcane+ Mustard
<b>No. of farmers</b>	03
<b>Replications</b>	03 (0.40/Demo) total 1.20 ha.
<b>Critical inputs</b>	Mustard seed @ 5 kg/ha .
<b>Production system</b>	Paddy-Wheat- Sugarcane
<b>Source of technology</b>	SVPU Agri. & Tech., Meerut
<b>Total Cost</b>	Rs. 8000/-
<b>Observation to be recorded</b>	i. No. of tillers (Main crop) ii. Cane yield (q/ha) iii. Inter crop yield (q/ha) iv. CEY v. Relative Economics.
<b>Name of Scientist</b>	Dr. H.R. Singh Prof. (Agronomy) Dr. Abhinav Kumar, SMS (Agronomy)

### OFT- 4VARIETAL EVALUATION

#### Paddy crop (Season - Kharif 2023)

Particulars	Contents
<b>Title</b>	To assess the adoptability of newly released scented rice variety for higher yield.
<b>Problem diagnosed</b>	Low yield of old scented rice variety
<b>Micro farming situation</b>	Irrigated upland condition
<b>Details of technology identified for solution</b>	<b>T<sub>1</sub>– Sharbati (Farmers practice)</b> <b>T<sub>2</sub> – PB- 1718</b>
<b>No. of farmers</b>	05 (Plot size -800 m <sup>2</sup> /treatment)
<b>Replications</b>	05
<b>Critical inputs</b>	Seed of variety PB-1718
<b>Production system</b>	Rice-wheat
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost</b>	Rs. 4500.00
<b>Observation to be recorded</b>	No of tillers/m <sup>2</sup> , No. of grain/ear, 1000 grain wt., yield (q/ha)
<b>Name of Scientist</b>	Dr. Laxmi Kant SMS/Assit. Prof. (Plant Breeding)

**OFT-5 VARIETAL EVALUATION**

Wheat crop (Season - Rabi 2023-24)

Particulars	Contents
<b>Title</b>	<b>Assessment of new high yielding wheat varieties for NWPZ.</b>
<b>Problem diagnosed</b>	Low yield of wheat varieties due to Karnal bunt and yellow rust.
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	<b>T<sub>1</sub> – Farmers practice (PB-550)</b> <b>T<sub>2</sub> – DBW - 303</b>
<b>No. of farmers</b>	05 (Plot size -1600 m <sup>2</sup> /treatment)
<b>Replications</b>	05
<b>Critical inputs</b>	Seed of DBW 303 @ 100 kg/ha.
<b>Production system</b>	Rice-wheat
<b>Source of technology</b>	Pusa, New Delhi
<b>Total Cost</b>	6700.00
<b>Observation to be recorded</b>	Tiller/plant, 1000 grain wt., yield (q/ha), Cost of cultivation, BC Ratio, Acceptance
<b>Name of Scientist</b>	Dr. Laxmi Kant, SMS/Assit. Prof. (Plant breeding)

**OFT-6 INTEGRATED NUTRIENT MANAGEMENT**

Paddy crop (Season - Kharif - 2023)

Particulars	Contents
<b>Title</b>	Assessment of nutrient in paddy crop on the basis of soil test.
<b>Problem diagnosed</b>	Low productivity of paddy due to imbalance use of fertilizers.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (120:60:40:0) N:P:K:Fe T <sub>2</sub> : Nutrient management on the basis of soil test.
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	FeSo <sub>4</sub> (Ferrous sulfate) @ 6 Kg/ha.
<b>Production system</b>	Rice -Wheat
<b>Source of technology</b>	SVPUA&T, Meerut
<b>Total Cost</b>	Rs. 500/- approx.
<b>Observation to be recorded</b>	i. Effective tillers per meter row length. ii. 1000 grain weight (g) iii. No. of grain/ear. iv. No. of tillar/hill v. C:B ratio vi. Yield (q/ha)
<b>Name of Scientist</b>	Dr. Ashok Singh, prog. Assit. (Soil Science)

**OFT-7 RESOURCE CONSERVATION****Wheat crop (Season - Rabi 2023-24)**

Particulars	Contents
<b>Title</b>	To assessment of organic matter in soil.
<b>Problem diagnosed</b>	Low organic matter in soil due to burning of residue.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Burning of crop residue) T <sub>2</sub> : Waste decomposer
<b>No. of farmers</b>	10
<b>Replications</b>	10
<b>Critical inputs</b>	Waste decomposer
<b>Production system</b>	Rice -Wheat
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost</b>	Rs. 1000/- approx.
<b>Observation to be recorded</b>	i. Organic matter before and after ii. Effective tillers per meter row length. iii. 1000 grain weight (g) iv. No. of grain/ear. v. C:B ratio vi. Yield (q/ha)
<b>Name of Scientist</b>	Dr. Ashok Singh, prog. Assit. (Soil Science)

**OFT-8 VARIETAL EVALUATION****Tomato crop (Season –Kharif 2023)**

Particulars	Contents
<b>Title</b>	Varietal evaluation of hybrid tomato
<b>Problem diagnosed</b>	Low income from Tomato
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Raja) T <sub>2</sub> : Tomato Pusa Hybrid -2
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Seed
<b>Production system</b>	Rice -Wheat
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost</b>	Rs. 8500/- approx.
<b>Observation to be recorded</b>	i. Cost of cultivation ii. Net profit (Rs/ha), iii. Production q/ha. iv. B:C ratio v. Acceptability of technology
<b>Name of Scientist</b>	Dr. Virendra Pal, SMS/Assit. Prof. (Horticulture)



**OFT-9 CANOPY MANAGEMENT(INM)**

Mango crop (Season –Rabi 2023-24)

Particulars	Contents
<b>Title</b>	Assessment of canopy management techniques of old orchard of Mango
<b>Problem diagnosed</b>	Low yield due to old age of plant
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Zero pruning) T <sub>2</sub> : Centre opening system of canopy management
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	Fungicide (Copper Oxichloride) and Potassium 1kg, Zinc 250 gm, Copper 250 gm, Sulphur 250gm & Boron 250 gm per matured plant above 40 years of age
<b>Production system</b>	Rice -Wheat
<b>Source of technology</b>	CISH, Lucknow
<b>Total Cost</b>	Rs. 7500/- approx.
<b>Observation to be recorded</b>	i. No of fruits/plant ii. Maturity duration iii. Yield q./ha. iv. Cost of cultivation v. Net profit (Rs/ha), vi. Production/ hac vii. B:C ratio viii. Feasibility of technology
<b>Name of Scientist</b>	Dr. Virendra Pal, SMS/Assit. Prof. (Horticulture)

**OFT-10DAIRY NUTRIENT MANAGEMENT**

Buffalo (Season - Kharif 2023)

Particulars	Contents
<b>Title</b>	<b>Evaluation of different feed supplement to check the infertility in milch animals.</b>
<b>Problem diagnosed</b>	Infertility
<b>Micro farming situation</b>	Crop production and animal husbandry.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Use of common salt) T <sub>2</sub> : Dewormer + Mineral mixture + Fertisule
<b>No. of farmers/Animals</b>	05/05
<b>Duration</b>	60days
<b>Critical inputs</b>	Dewormer , Mineral mixture, Fertisule
<b>Source of technology</b>	IVRI, Izatnagar , Bareilly/NDRI, Karnal
<b>Total Cost</b>	Rs. 6000/- approx.
<b>Observation to be recorded</b>	i. Annual calving ii. Milk production iii. C:B ratio
<b>Name of Scientist</b>	Dr. P.K. Madke, SMS/Assit. Prof. (Animal Science)

**OFT- 11DAIRY NUTRIENT MANAGEMENT****Buffalo (Season - Rabi 2023-24)**

Particulars	Contents
<b>Title</b>	Assessment of conventional and <b>Bye-pass protein</b> to enhancing milk yield.
<b>Problem diagnosed</b>	Low milk yield and income due to conventional ration feeding
<b>Micro farming situation</b>	Mixed farming
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Conventional feed Use of choker and cakes) T <sub>2</sub> : Use of <b>Bye-pass protein</b> @ 3 kg/day/animal
<b>No. of farmers/Animals</b>	03/03
<b>Duration</b>	60days
<b>Critical inputs</b>	Bye-pass animal feed
<b>Source of technology</b>	IVRI, Izatnagar , Bareilly/NDRI, Karnal
<b>Total Cost</b>	Rs. 12000/- approx.
<b>Observation to be recorded</b>	i. Onset of estrous period ii. Milk yield iii. Concentrate saving iv. C:B ratio
<b>Name of Scientist</b>	Dr. P.K. Madke, SMS/Assit. Prof. (Animal Science)

**OFT-12NUTRITIONAL MANAGEMENT****Preparation from pulses and vegetable Badis (Summer season)**

Particulars	Details
Title of OFT	Assessment of role of SHG for income generation through preparation from different pulses and vegetable Badi.
Problem diagnosed	Nutrient inadequacy
Thematic Area	Nutritional management
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice – Preparation from few pulses T <sub>2</sub> - Preparation from different type of pulses and vegetables.
Source of Technology	GBPUA&T, Pantnagar
Characteristics of Technology	1. High in Protein, energy and vitamins 2. Can be used in different variations 3. High Palatability 4. Availability in all season
No of Trail	05
Critical Input	Pulses, Vegetables, Spices and edible oil
Performance Indicator/Parameter	Nutritive value Cost of preparation Profitability Sale opportunity Farmer Reaction and Feedback Self life
Expenditure	(Aprox. Exp. Rs. 4500/-)
Name of Scientist	Dr, Vinita Singh, SMS (Home Science)

**OFT-13 DESIGNING AND DEVELOPMENT FOR HIGH NUTRIENT EFFICIENCY DIET**

**Feeding of Soya bean products:(Winter season)**

Particulars	Details
Title of OFT	Assessment of soya bean products on the nutritional health of children's suffering from malnutrition.
Problem diagnosed	Protein energy malnutrition due to unscientifically prepared supplementary foods for children
Thematic Area	Design and development of low cost and high nutrient efficiency diet
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice (Milk, ghee, cereals) T <sub>2</sub> - Preparation of Soya bean products (25-30gm/twice a day (in children)/(50-60gm/twice a day(in PW))
Source of Technology	CIAE Bhopal
Characteristics of Technology	High in Protein, energy and vitamins
No of Trail	05
Critical Input	SOY n PRO mixture
Performance Indicator/Parameter	Technical observations Anthropometric measurements Estimation of nutritional value Farmer Reaction and Feedback
Expenditure	(Aprox. Exp. Rs. 5500/-)
Name of Scientist	Dr. Vinita Singh, SMS (Home Science)

## **3.2 Frontline Demonstrations**

### **3.2.1 FLD on Oil seeds & Pulses under NFSM Project**

#### **A. Oil Seeds:**

#### **Mustard**

<b>Crop</b>	<b>Variety</b>	<b>Thematic area</b>	<b>Technology Demonstrated</b>	<b>Critical input</b>	<b>Season and year</b>	<b>Area ( ha)</b>	<b>No. of farmers</b>	<b>Parameter identified</b>
Mustard	R.H –0749/ As per availability	Integrated crop management	To demonstrate the HYV (RH-0749), Sulphur application (@ 25 Kg/ha.) & Aphid management in Mustard crop.	<ul style="list-style-type: none"> <li>- Use of HYV</li> <li>- Water soluble fertilizer(18:18:18) @ 5 Kg/ha.</li> <li>- Sulphur application @ 25 kg/ha</li> <li>- Monocrotophos 36%SL @ 15 lit/ha.</li> <li>- Mencozeb75% WP @ 2.0 Kg/ha.</li> <li>- Budget required Rs. 180,000/-</li> </ul>	<i>Rabi</i> 2023-24	20.0	50	<ul style="list-style-type: none"> <li>- Yield (q/ha.)</li> <li>- B:C ratio</li> </ul>

#### **Extension and Training Activities**

<b>S.No.</b>	<b>Activity</b>	<b>No. of activities</b>	<b>Month</b>	<b>No. of participation</b>
1	Field days	02	Jan/Feb.2024	40
2	Farmers training	02	Oct./Nov.2023	40
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Sept.2023	10

**B. Pulses :****I. Blackgram**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Black gram	PU-31 Or As per availability	Integrated crop management	To demonstrate the HYV (PU- 31), weed mang. (Imazathpyr, Sulphur (@ 25 Kg/ha.) & Yellow mosaic management (Imedaclorpid@ 250 ml/ha.) in urd crop.	- Seed (HYV) - Imazathapyr @ 625 ml/ha. - Water soluble fertilizer(18:18:18) @ 5 Kg/ha. - Sulphur @ 25 Kg/ha. - Imidachlorpid @ 250ml/ha. Total cost= Rs. 90000/-	<i>Kharif</i> 2023	10.0	25	- Yield (q/ha.) - B:C ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Sept./ Oct.2023	25
2	Farmers training	01	Aug.2023	20
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Aug, 2023	10

**C. Pulses :****II. Field Pea**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Field Pea	IPFD10-12 or As per availability	Integrated crop management	To demonstrate the HYV (IPFD10-12),	- Seed (HYV) & Critical inputs	<i>Rabi</i> 2023 - 24	10.0	25	- Yield (q/ha.) - B:C ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Jan/Feb.2023	25

2	Farmers training	01	Oct./Nov.2023	20
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Sept.2023	10

### Sponsored Demonstration C-FLDs under NFSM

Sl. No.	Crop	Area (ha)	No. of farmers
1	Mustard (Rabi 2023-24)	20.0 ha.	50
2	Black gram (Kharif 2023)	10.0 ha.	25
3	Field Pea (Rabi 2023-24)	10.0 ha.	25
<b>TOTAL</b>		<b>40.0 ha</b>	<b>100</b>

### 3.2.2FLD Other than oil seeds & Pulses

#### FLD No. - 1

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	Pusa-1509/ As per availability	Weed management	Weed management in paddy through Pyrazosulfuron 10 WP@ 375gm/ha.	Weedicide Pyrazosulfuron10 WP@ 375gm/ha. Total cost : Rs. 20000/-	Kharif 2023	6.0	15	- Grain yield q/ha. - Weed population - Economics

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	September 2023	20
2	Farmers training	01	Aug.2023	20
3	Media coverage	01	-	-

**FLD No. - 2**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	HD2967/ As per availability	- Weed management	Weed management in wheat through Carfantazone 50WP. @ 20 gm/ha.	Weedicide - Carfantazone 50 WP. @ 20 gm/ha. - Total cost : Rs. 15000/-	Rabi 2023-24	6.0	15	- Grain yield q/ha. - Weed population - Economics

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Feb./March 2024	20
2	Farmers training	01	Oct.2023	20
3	Media coverage	01	-	-

**FLD No. - 3**

Crop	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	- Integrated pest management	- Control of Brown plant hopper through Buprofezin 25 SC @ 1lit./ha. (Two spray)	- Buprofezin 25 SC Total 8.0 Lit. - Total Cost Rs. 3000/-	Kharif 2023	4.0	10	- Insect infestation% - Yield(q/ha) - Economics

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	1	Sept. - Oct.2023	30
2	Media coverage	1	-	-
3	Farmers training	1	Aug.2023	20

### FLD No. – 4

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	PB - 1509	INM	- Nutrient management through water soluble fertilizers (18:18:18) N:P:K in paddy @ 12.5 Kg/ha	18:18:18 N:P:K - 12.5 Kg/ha. @ Rs. 100/ kg. Cost – 1250/- ha. Total cost – Rs. 7500/-	Kharif 2023	6.0	15	- Tillers/m <sup>2</sup> - No. of grains/spike - 1000 gm grain weight - Grain yield q/ha. - Economics

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	September 2023	20
2	Farmers training	01	April/May 2023	20
3	Media coverage	02	-	Mass



**FLD No. – 5**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	HD-2967	INM	- Nutrient management through water soluble fertilizers (18:18:18) N:P:K in wheat @ 12.5 Kg/ha	18:18:18 N:P:K - 12.5 Kg/ha. @ Rs. 100/ kg. Cost – 1250/- ha. Total cost – Rs. 7500/-	Rabi 2023-24	6.0	15	- Tillers/m <sup>2</sup> - No. of grains/spike - 1000 gm grain weight - Grain yield q/ha. - Economics

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Nov.2023	20
3	Media coverage	02	-	Mass

**FLD No. - 6**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	Pusa 1718/ other high yielding variety	Varietal Evaluation	To demonstrate the increase yield through newly released variety of basmati rice	Varieties: Pusa 1718/ other high yielding variety Total Rs. 15000/ approx.	Kharif 2023	4.0	10	- No. of grains/spike - 1000 grain weight (g) - Grain yield q/ha. - Economics

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field day	02	September/Oct. 2023	40
2	Media Coverage	01		-
3	Farmers training	01	April/May 2023	20

**FLD No. - 7**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	DBW 187/ other high yielding variety	Varietal Evaluation	To demonstrate the new wheat variety (DBW – 187) for higher yield.	Varieties DBW187/ other high yielding variety Total Rs. 15000/ approx.	Rabi 2023-24	4.0	10	- No. of grains/spike - 1000 grain weight (g) - Grain yield q/ha. - Economics

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field day	02	February/March 2024	40
2	Media Coverage	02	-	-
3	Farmers training	01	Jan.2024	20

**FLD No. – 8**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
S.cane	CO 0238	Weed management	- Weed management in S.cane through Tembotrione @ 285ml/ha.	- Weedicide - Tembotrione @ 285ml/ha	Zaid 2023	6.0	15	- Cane Yield (q/ha.) - Economics - Cane Girth - Weed population

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2023	20
2	Farmers training	01	Nov. 2023	20
3	Media coverage	02	-	Mass

**FLD No. – 9**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Marigold	Pusa Narangi	Varietal evaluation	Introduction of marigold variety.	Seed 1.5 Kg/ha. Rs. 6750.00	Kharif 2023	0.8	10	- Cost of cultivation - Gross Return - Net Return - C:B Ratio - Yield increase (%)

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Aug. 2023	20
2	Farmers training	01	Sept. 2023	20
3	Media coverage	02	-	Mass

**FLD No. – 10**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Okra	Kasi Lallima	Varietal evaluation	Introduction of Okra variety.	Seed 12.0 Kg/ha. Rs. 7000.00	Kharif 2023	0.8	10	- Cost of cultivation - Gross Return - Net Return - C:B Ratio - Yield increase (%)

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Aug. 2023	20
2	Farmers training	01	Sept. 2023	20
3	Media coverage	02	-	Mass

**FLD No. – 11**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Onion	Agrifound dark Red	Varietal evaluation	Introduction of Onion variety.	Seed 10.0 Kg/ha. Rs. 9600.00	Rabi 2023-24	0.8	10	- Cost of cultivation - Gross Return - Net Return - C:B Ratio - Yield increase (%)

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Dec. 2023	20
2	Farmers training	01	Jan. 2024	20
3	Media coverage	02	-	Mass

**FLD No. – 12**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Garden Pea	Pusa Pragati	Varietal evaluation	Intercropping of garden pea with sugarcane.	Seed 80 Kg/ha. Rs. 8000.00	Rabi 2023-24	0.4	05	- Cost of cultivation - Gross Return - Net Return - C:B Ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Dec. 2023	20
2	Farmers training	01	Jan. 2024	20
3	Media coverage	02	-	Mass

**FLD No. – 13**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Potato	Kufri Chipsona - 1	Varietal evaluation	Intercropping of potato with sugarcane.	Seed 10 q/ha. Rs. 10000.00	Rabi 2023-24	0.4	05	- Cost of cultivation - Gross Return - Net Return - C:B Ratio

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Dec. 2023	20
2	Farmers training	01	Jan. 2024	20
3	Media coverage	02	-	Mass

**FLD No. – 14**

Enterprise	Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of animals, poultry birds/ha. etc.	No. of farmers	Parameter identified

Buffalo	Milch cattle/ Buffalo Murraha	Animal Nutrition Management	Enhancement milk production in milch buffalo.	Mineral mixture Albandazole	Kharif 2023	20	10	1. Milk production 2. Proper heat period. 3. Adoptability. 4. Economics (B:C ratio)
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#### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Sept. 2023	20
2	Farmers training	01	Aug. 2023	20
3	Media coverage	02	-	Mass

#### FLD No. - 15

Crop	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Oat	Feed and Fodder technology	Use of High yield Variety	Variety: (Kent)/ As per availability Seed Req: 100 kg Total Rs: 5000 /- approx.	Rabi 2023-24	1.0 ha	10	1. Production performance 2. Yield /ha. 3. No of cutting

#### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	1	February 2024	20
2	Media coverage	1		
3	Farmers training	1	Nov. 2023	20

**FLD No. - 16**

Crop	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Berseem	Feed and Fodder technology	Use of High yield Variety	Variety: (BL-42) Seed Req: 55kg Total Rs: 5000 /- approx.	Rabi 2023-24	1.0 ha	10	1.Production performance 2. Yield /ha. 3. No of cutting

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	1	February 2024	20
2	Media coverage	1	-	-
3	Farmers Training	1	Nov. 2023	20

**Home Science.**

S N	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season / year	Area (ha)	No. of Demo.	Parameter indicators	Expected Exp. (Rs.)
<b>Oilseed and pulses</b>										
1.	Production of vermi-compost	-	Women Empowerment	Worms @ 1 kg/demon.	Worms	Zaid-2023	-	05	<ul style="list-style-type: none"> <li>• Compost production/pit</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	6500.00
2.	Kitchen Garden	Rabi vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable Seeds	Rabi 2022-23	0.02	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	4500.00



3.	Kitchen Garden	Kharif vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable Seeds	Kharif-2023	0.02	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	4500.00
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**Extension and Training activities under FLDs during year -2022-23**

SN	Activity	No. of activities	Month	Approximate number of participants
1	Field days	04	August, Nov, Dec, Feb.	123
2	Farmers Training	17	Sept., Oct., Dec., Jan, Feb, March	240
3	Media coverage	12	Sep., Oct., Nov., Dec.	Mass
4	Training for extension functionaries	02	Sep., Nov.,	105

### 3.3 Training (Including the sponsored and FLD training programmes):

#### ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	18	-	18	02	-	02	20
Resource Conservation Technologies	04	72		72	08		08	80
Cropping Systems	01	18	-	18	02	-	02	20
Integrated Crop Management	01	18	-	18	02	-	02	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	01	17	-	17	03	-	03	20
<b>b) Fruits</b>								
Training and Pruning	01	17	-	17	03	-	03	20
Layout and Management of Orchards	01	17	-	17	03	-	03	20
Rejuvenation of old orchards	01	17	-	17	03	-	03	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	-	18	02	-	02	20
Integrated Nutrient Management	04	72		72	08		08	80
Production and use of organic inputs	01	18		18	02		02	20
Micro nutrient deficiency in crops	01	18		18	02		02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	03	54	-	54	06	-	06	60
Feed management	01	18	-	18	02	-	02	20
<b>VII Plant Protection</b>								
Integrated Pest Management	02	36		36	04		04	40
Integrated Disease Management	02	36		36	04		04	40
<b>XII Others (Pl. Specify)</b>								
<b>Crop improvement</b>								
Varietal description and production technology of field crop	05	90		90	10		10	100
<b>TOTAL</b>	<b>31</b>	<b>554</b>	<b>0</b>	<b>554</b>	<b>66</b>	<b>0</b>	<b>66</b>	<b>620</b>
<b>G. Total</b>	<b>31</b>	<b>554</b>	<b>0</b>	<b>554</b>	<b>66</b>	<b>0</b>	<b>66</b>	<b>620</b>

#### c. OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	18	-	18	02	-	02	20
Resource Conservation Technologies	04	72		72	08		08	80
Cropping Systems	01	18	-	18	02	-	02	20

Integrated Crop Management	01	18	-	18	02	-	02	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	02	34	-	34	06	-	06	40
Off-season vegetables	01	17	-	17	03	-	03	20
Nursery raising	02	34	-	34	06	-	06	40
Management of young plants/orchards	02	34	-	34	06	-	06	40
Rejuvenation of old orchards	01	17	-	17	03	-	03	20
<b>c) Ornamental Plants</b>								
Nursery Management	01	17	-	17	03	-	03	20
Propagation techniques of Ornamental Plants	02	32	-	32	08	-	08	40
<b>e) Tuber crops</b>								
Production and Management technology	01	17	-	17	03	-	03	20
<b>f) Spices</b>								
Production and Management technology	02	34	-	34	06	-	06	40
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	-	18	02	-	02	20
Integrated Nutrient Management	04	72		08	08		08	80
Production and use of organic inputs	01	18		18	02		02	20
Micro nutrient deficiency in crops	01	18		18	02		02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	03	54	-	54	06	-	06	60
Disease Management	03	54	-	54	06	-	06	60
Feed management	04	72	-	72	08	-	08	80
<b>VII Plant Protection</b>								
Integrated Pest Management	02	36		36	04		04	40
Integrated Disease Management	02	36		36	04		04	40
<b>XII Others (Pl. Specify)</b>								
<b>Crop Improvement</b>								
Varietal description and production technology of field crop	06	108	-	108	12	-	12	120
Varietal description and production technology of oilseeds and pulses crop	01	18	-	18	02	-	02	20
Varietal description and production technology of cash crop	02	36	-	36	04	-	04	40
<b>TOTAL</b>	<b>51</b>	<b>904</b>	<b>-</b>	<b>904</b>	<b>116</b>	<b>-</b>	<b>116</b>	<b>1020</b>

<b>(B) RURAL YOUTH</b>								
Seed production	03	24	-	24	06	-	06	30
Production of organic inputs	01	08	-	08	02	-	02	10
Vermi-culture	02	16	-	16	04	-	04	20
Nursery Management of Horticulture crops	02	16	-	16	04	-	04	20
Sheep and goat rearing	01	08	-	08	02	-	02	10
Poultry production	01	08	-	08	02	-	02	10
<b>TOTAL</b>	<b>10</b>	<b>80</b>	<b>-</b>	<b>80</b>	<b>20</b>	<b>-</b>	<b>20</b>	<b>100</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	03	24	-	24	06		06	30
Integrated Pest Management	01	08	-	08	02		02	10
Integrated Nutrient management	06	48	-	48	12	-	12	60
Rejuvenation of old orchards	01	08	-	08	02	-	02	10
Protected cultivation technology	01	08	-	08	02		02	10
Management in farm animals	03	24	-	24	06	-	06	30
Livestock feed and fodder production	02	16	-	16	04	-	04	20
Any other (Pl. Specify) ICM	01	08	-	08	02	-	02	10
Varietal description and production technology of field crop	02	16	-	16	04	-	04	20
<b>TOTAL</b>	<b>20</b>	<b>160</b>	<b>-</b>	<b>160</b>	<b>40</b>	<b>-</b>	<b>40</b>	<b>200</b>
<b>G. Total</b>	<b>81</b>	<b>1144</b>	<b>-</b>	<b>1144</b>	<b>176</b>	<b>-</b>	<b>176</b>	<b>1320</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	-	36	04	-	04	40
Resource Conservation Technologies	08	144	-	144	16	-	16	160
Cropping Systems	02	36	-	36	04	-	04	40
Integrated Crop Management	02	36	-	36	04	-	04	40
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	02	34	-	34	06	-	06	40
Off-season vegetables	02	34	-	34	06	-	06	40
Nursery raising	02	34	-	34	06	-	06	40
<b>b) Fruits</b>								
Training and Pruning	01	17	-	17	03	-	03	20
Layout and Management of Orchards	03	51	-	51	09	-	09	60
Rejuvenation of old orchards	02	34	-	34	06	-	06	40
<b>c) Ornamental Plants</b>								
Nursery Management	01	17	-	17	03	-	03	20
Propagation techniques of Ornamental Plants	02	32	-	32	08	-	08	40

<b>e) Tuber crops</b>								
Production and Management technology	01	17	-	17	03	-	03	20
<b>f) Spices</b>								
Production and Management technology	02	34	-	34	06	-	06	40
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	02	36	-	36	04	-	04	40
Integrated Nutrient Management	08	144	-	144	16	-	16	160
Production and use of organic inputs	02	36	-	36	04	-	04	40
Micro nutrient deficiency in crops	02	36	-	36	04	-	04	40
<b>IV Livestock Production and Management</b>								
Dairy Management	06	108	-	108	12	-	12	120
Disease Management	03	54	-	54	06	-	06	60
Feed management	05	90	-	90	10	-	10	100
<b>VII Plant Protection</b>								
Integrated Pest Management	04	72		72	08		08	80
Integrated Disease Management	04	72		72	08		08	80
<b>XII Others (Pl. Specify)</b>								
<b>Crop Improvement</b>								
Varietal description and production technology of field crop	11	198	-	198	22	-	22	220
Varietal description and production technology of oilseeds and pulses crop	01	18	-	18	02	-	02	20
Varietal description and production technology of cash crop	02	36	-	36	04	-	04	40
<b>TOTAL</b>	<b>82</b>	<b>1458</b>	<b>0</b>	<b>1458</b>	<b>182</b>	<b>0</b>	<b>182</b>	<b>1640</b>
<b>(B) RURAL YOUTH</b>								
Seed production	03	24	-	24	06	-	06	30
Production of organic inputs	01	08	-	08	02	-	02	10
Vermi-culture	02	16	-	16	04	-	04	20
Nursery Management of Horticulture crops	02	16	-	16	04	-	04	20
Sheep and goat rearing	01	08	-	08	02	-	02	10
Poultry production	01	08	-	08	02	-	02	10
<b>TOTAL</b>	<b>10</b>	<b>80</b>	<b>-</b>	<b>80</b>	<b>20</b>	<b>-</b>	<b>20</b>	<b>100</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	03	24	-	24	06	-	06	30
Integrated Pest Management	01	08	-	08	02	-	02	10
Integrated Nutrient management	06	48	-	48	12	-	12	60
Rejuvenation of old orchards	01	08	-	08	02	-	02	10
Protected cultivation technology	01	08	-	08	02	-	02	10
Management in farm animals	03	24	-	24	06	-	06	30
Livestock feed and fodder production	02	16	-	16	04	-	04	20
Any other (Pl. Specify) ICM	01	08	-	08	02	-	02	10

Varietal description and production technology of field crop	02	16	-	16	04	-	04	20
<b>TOTAL</b>	<b>20</b>	<b>160</b>	<b>-</b>	<b>160</b>	<b>40</b>	<b>-</b>	<b>40</b>	<b>200</b>
<b>G. Total</b>	<b>112</b>	<b>1698</b>	<b>-</b>	<b>1698</b>	<b>242</b>	<b>-</b>	<b>242</b>	<b>1940</b>

Details of training programmers attached in **Annexure – 1**

Contd. 3.3 **SUMMARY OF TRAINING PROGRAMME**

**A.**

Subject	Practicing Farmer								Rural Youths			
	On Campus				Off Campus				On/Off Campus			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
<i>Crop Production</i>	2	2	1	2	2	1	2	2	-	-	1	-
Plant Breeding	1	1	1	2	2	2	2	3	-	1	1	1
Plant protection	1	1	1	1	1	1	1	1	-	-	-	-
Soil Science	2	2	2	1	2	1	2	2	-	-	2	-
Horticulture	-	2	2	-	2	4	5	3	-	-	1	1
Live Stock Prod.	1	1	1	1	2	3	3	2	-	1	-	1
<b>Total</b>	<b>7</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>11</b>	<b>12</b>	<b>15</b>	<b>13</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>3</b>
<b>Grand Total</b>	<b>31</b>				<b>51</b>				<b>10</b>			

**B.**

Subject	Sponsored				Extension Functionaries			
	I	II	III	IV	I	II	III	IV
<i>Crop Production</i>	As per H.Q.'s direction				1	-	-	-
Plant Breeding	-do-				1	1	1	1
Soil Science	-do-				2	1	1	1
Plant Protection	-do-				-	-	1	-
Horticulture	-do-				1	1	1	1
LPM	-do-				1	1	2	1
<b>TOTAL -</b>					<b>6</b>	<b>4</b>	<b>6</b>	<b>4</b>
<b>Grand Total</b>					<b>20</b>			

### 3.4 Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	05	125	20	145	-	-	-	125	20	145
Kisan Mela	01	400	50	450	15	02	17	415	52	467
Kisan Ghosthi	01	400	50	450	15	02	17	415	52	467
Exhibition	01	400	50	450	15	02	17	415	52	467
Group meetings	01	40	-	40	05	-	05	45	-	45
Lectures delivered as resource persons	10	200	20	220	100	-	100	300	20	320
Newspaper coverage	50	-	-	-	-	-	-	-	-	Mass
Radio talks	05	-	-	-	-	-	-	-	-	Mass
TV talks	02	-	-	-	-	-	-	-	-	Mass
Popular articles	02	-	-	-	-	-	-	-	-	Mass
Extension Literature	05	-	-	-	-	-	-	-	-	Mass
Advisory Services										
Scientific visit to farmers field	50	250	-	250	50	-	50	300	-	300
Farmers visit to KVK	200	800	25	825	75	-	75	875	25	900
Diagnostic visits	10	250	50	300	-	-	-	250	50	300
Exposure visits	02	100	-	100	-	-	-	100	-	100
Ex-trainees Sammelan	01	50	-	50	03	-	03	53	-	53
Soil health Camp	03	300	100	400	-	-	-	300	100	400
Animal Health Camp	01	100	-	100	-	-	-	100	-	100
Soil test campaigns	02	300	20	320	25	-	25	325	20	345
Self Help Group Conveners meetings	01	10	10	20	-	-	-	10	10	20
Celebration of important days (specify)	03	150	30	180	05	-	05	155	30	185
Pre Kharif workshop	01	100	25	125	-	-	-	100	25	125
Pre Rabi workshop	01	100	25	125	-	-	-	100	25	125
PMFBY Sammelan	02	200	25	225	05	-	05	205	25	230
Soil Health card distribution	02	300	20	320	25	-	25	325	20	345
<b>Total</b>	<b>362</b>	<b>4575</b>	<b>520</b>	<b>5095</b>	<b>338</b>	<b>06</b>	<b>344</b>	<b>4913</b>	<b>526</b>	<b>5439</b>

**3.5 Target for Production and supply of Technological products Jan. 2022to Dec. 2022**  
**SEED MATERIALS**

Sl. No.	Crop	Variety	Quantity (q.)
<b>Commercial</b>			
<b>CEREALS</b>	<i>Wheat</i>	WB-2 HD-3086 DBW-88	200 q
<b>OILSEEDS</b>	Mustard	RH -0749/ Available variety	100q
<b>VEGETABLES</b>			
<b>OTHERS (Specify)</b>	Dhencha	Local	Green Manauring 300.0

**PLANTING MATERIALS**

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>			
	Papaya	Pusa Nanha, Taiwan	1000
<b>VEGETABLES</b>			
	Tomato	Swarna Deepti & Swarna Anmol	2000
	Onion	Bheema Red & Bheema Dark Red	7000
<b>FOREST SPECIES</b>			
<b>ORNAMENTAL CROPS</b>	Marigold	Pusa Mosmi, Pusa Basanti	10000
		<b>Total</b>	<b>20000.00</b>

**3.6. Literature to be Developed/Published**

(A) **KVK News Letter** (Date of start, Periodicity, number of copies to be published etc.)- Yet to be come

(B) Literature to be developed/published

Item	No. of copies
Research paper each scientist	02
Technical reports	35
New letters	15
Technical manual all discipline	05
Poplar articles	20
Extension literature	25
Other (specify)	
<b>Total</b>	<b>110</b>

(C) **Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD/Audio-Cassette	Vermi-Compost/Pressmud composting	01
2	CD/Audio-Cassette	Balance Nutrient-management in Rabi crops.	01



**3.7. Success stories/Case studies identified for development as a case. 02**

- a. Brief introduction**
- b. Intervention**
- c. Output**
- d. Outcomes**
- e. Impact**
  - i) Social economics**
  - ii) Bio-Physical**
- f. Good Action Photographs**

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) PRA
- b) Group discussion
- c) Interviews.

**Rural Youth**

- a) PRA
- b) Group discussion

**In-service personnel**

- a) Departmental Meetings
- b) Group discussions.

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions

**For FLD :** Nutrient management in Sugarcane, Paddy & Wheat, Control of blast disease in paddy & Weed management in paddy/wheat.

- xxviii) New variety/technology
- xxix) Poor yield at farmers level
- xxx) Existing cropping system

**3.10 Field activities**

i. Name of villages identified/adopted with block name (from which year) -

S.No.	Name of scientist	Village Name	Block
1	Dr. Ashok Singh	Atoota	Simmbhawali
2	Dr. P.K. Madke	Kaniya	Simmbhawali
3	Dr. Laxmikant	Upeda	Hapur

- ii. No. of farm families selected per village : 10
- iii. No. of survey/PRA conducted : 01
- iv. No. of technologies taken to the adopted villages 02
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

**3.11. Activities of Soil and Water Testing Laboratory- NA**

#### 4.0 LINKAGES

##### 4.1 Functional linkage with different organizations

Name of organization	Nature of linkage
Deptt. of Agriculture	Diagnostic survey, Participation in Kisan Mela, Kisan Gosthi, Advisory service, Training and field day.
Deptt. Of Horticulture	Diagnostic survey, Participation in Kisan Mela, Kisan Gosthi, Advisory service, Training and field day.
Deptt. Of Animal Husbandry	Participation in Animal Health camp and Pashu Palak Gosthi, advisory services.
Deptt. of soil conservation	Participation in training programme & advisory services.
IFFCO/KRIBHCO	Participation in training programme
NSC	Seed production programme
NGO's	Participation in training programme
SVPUA&T, Meerut	Participation in Farmer's fair, training prog., technology& meeting
ICAR	Financial support and technology (Newly released varieties and crop management)
IARI & SAU's	Technology (Newly released varieties and crop management)

##### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district  Yes

Sl. No.	Programme	Nature of linkage
1.	Kisan Gosthi	Participation as resource person
2.	Field Day	Participation as resource person
3.	Kisan Mela	Participation as resource person
4	FLD	Participation as resource person
5	Validation trials	Participation as resource person
6	Farmers training	Participation as resource person
7	Exposure Visit	Participation as resource person

##### 4.3 Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1		

##### 4.4 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1		
2		

##### 5.0 Utilization of hostel facilities

S. No.	Programme	No. of days
1		
	<b>Total</b>	

##### 6.0 Convergence with departments :

**7.1. Details of the programmes being implemented by your KVK in partnership with other institution**

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
1	F.T.T.	UP Govt.	6 days	0.40

**7.2. Brief achievements of above collaborative programmes**

S. No.	Name of Programme	Salient achievement	Impact of the programme
1			

**8.0 Feedback of the farmers about the technologies demonstrated and assessed :**

Feedback of the farmers will be taken.

**9.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :**

Feedback from the KVK Scientists will sent to the University.

## Details of Training Programme

### (i) ON Campus training for Practicing Farmers and farm Women

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter</b>											
Crop Production	i. Intercropping Urd / moong in spring sugarcane.	10 March 23	PF	1	On	18	-	18	2	-	2
	ii. Conserve and decompose the crop residual for in riching in organic carban in soil.	25 March 23	PF	1	On	18	-	18	2	-	2
LPM	<i>i. Care and management of calf during winter season</i>	11 Jan. 23	PF	1	On	18	-	18	2	-	2
Soil science	i. Use of water soluble fertilizers in wheat.	8 Jan. 23	PF	1	On	18	-	18	2	-	2
	ii. Importance of micro-nutrient management in S.cane.	10 Feb. 23	PF	1	On	18	-	18	2	-	2
Plant Protection	i. Integrated disease management in sugarcane	19 March 2023	PF	1	On	18	-	18	2	-	2
Plant Breeding	i. Roughing technique in wheat seed production	18 Jan. 2023	PF	1	On	18	-	18	2	-	2
	i. Roughing technique & Identification of other varieties of wheat in seed production.	16 Feb. 2023	PF	1	On	18	-	18	2	-	2
Horticulture	i. Early sowing of watermelon under low tunnel.	21 Feb. 2023	PF	1	On	18	-	18	2	-	2
Home Sci.	i. Introduction of gender friendly small tools and implements for enhancement of work efficiency for farm women	20 Feb 2023	PF	1	On	-	18	18	-	2	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IInd Quarter</b>											
Crop Production	i. Inter cropping of urdbean in S.cane ratoon.	06 April 23	PF	1	On	18	-	18	2	-	2
	ii. Production technique of direct seeded rice.	21 May 23	PF	1	On	18	-	18	2	-	2
Livestock prod.	i. Urea treatment of poor quality roughages like wheat straw and paddy straw.	12 April 23	PF	1	On	18	-	18	2	-	2
Soil Science	i. Soil sampling techniques and its importance.	15 May 23	PF	1	On	18	-	18	2	-	2
	ii. Use of bio-fertilizer in kharif crop.	10 June 23	PF	1	On	18	-	18	2	-	2

Plant protection	i. Integrated insect & disease management in Cucurbits crop.	18 April 23	PF	1	On	18	-	18	2	-	2
Plant breeding	i. Seed production of Urd & Moong bean	26 April 2023	PF	1	On	18	-	18	2	-	2
	ii. Seed production of Til.	19 June 2023	PF	1	On	18	-	18	2	-	2
Horticulture	i. Planning & layout of mango/ guava orchard	20 June 2023	PF	1	On	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IIIrd Quarter</b>											
Crop Production	i. Weed management in paddy.	25 July 23	PF	1	On	18	-	18	2	-	2
	ii. sowing technique in maize.	28 July,23	PF	1	On	18	-	18	2	-	2
Livestock prod.	i. Importance of Mineral mixture in dairy animal.	14 July 23	PF	1	On	18	-	18	2	-	2
Soil Science	i. Main component of natural farming.	15 Sept. 23	PF	1	On	18	-	18	2	-	2
	ii. Importance of Ghanjevamrt.	25Sept. 22	PF	1	On	18	-	18	2	-	2
Plant protection	i. Integrated insect management in Urd	16 Aug. 23	PF	1	On	18	-	18	2	-	2
Plant breeding	i Seed production of scented rice.	08July 23	PF	1	On	18	-	18	2	-	2
	ii.Seed production of urd in Kharif season.	15 July 2023	PF	1	On	18	-	18	2	-	2
Horticulture	i. Nutrient management in mango	17 Aug. 2023	PF	1	On	18	-	18	2	-	2
Home Sci.	i.Low budget nutritious food	27 July 2023	PF	1	On	-	18	18	-	2	2
	ii. Balance diet for children to improve health	22 Aug. 23	PF	1	On	-	18	18	-	2	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IVth Quarter</b>											

Crop Production	i. Production technology of Azolla & BGA.	10 Oct. 23	PF	1	On	18	-	18	2	-	2
	ii.Improved varieties of wheat under timely sown condition and their production techniques	05 Nov. 23	PF	1	On	18	-	18	2	-	2

LPM	i. Balance feeding of cattle and buffaloes.	6 Oct. 23	PF	1	On	18	-	18	2	-	2
Soil science	i. Crop residue management through paddy straw.	01 Oct. 23	PF	1	On	18	-	18	2	-	2
Plant Protection	i. Integrated insect & disease management in m rabi pulses.	16 Nov. 23	PF	1	On	18	-	18	2	-	2
Plant Breeding	i. Technique of Seed Production of Mustard ii. Seed Production Technique of Wheat.	06 Oct. 23	PF	1	On	18	-	18	2	-	2
		10 Oct. 23	PF	1	On	18	-	18	2	-	2
Horticulture	Nursery raising of cauliflower	03 Oct. 23	PF	1	On	18	-	18	2	-	2
Home Sci.	Household food security by nutrition gardening through organic farming	23 Oct. 23	PF	1	On	-	18	18	-	2	2

## (ii) OFF Campus training for Practicing Farmers and Farm Women

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter</b>											

Crop Production	Ratoon management of sugarcane crop	28 Jan. 23	PF	1	Off	18	-	18	2	-	2
	IFS modle for doubling income	03 Feb 23	PF	1	Off	18	-	18	2	-	2
LPM	Symptoms, prevention and control of FMD disease	07 Feb. 23	PF	1	Off	18	-	18	2	-	2
	Mastitis diseases in milch animals its causes and control.	15 March.23	PF	1	Off	18	-	18	2	-	2
Soil Science	i. Importance of micronutrients in spring sugarcane. ii. Soil sampling techniques and its importance	11Jan.2023	PF	1	Off	18	-	18	2	-	2
		20 Feb. 2023	PF	1	Off	18	-	18	2	-	2
Plant Protection	Technique and importance of Seed treatment in <i>zaid</i> crops	12 Feb. 2023	PF	1	Off	18	-	18	2	-	2
Plant Breeding	iQuality wheat seed production. ii. Importance of isolation distance & roughing in wheat seed production.	20 Feb. 23	PF	1	Off	18	-	18	2	-	2
		26Feb.23	PF	1	Off	18	-	18	2	-	2
Horticulture	i. Weed management in Onion crop ii. Sowing /transplanting of cucurbitaceous crops under paddy tunnel.	16 Jan. 23	PF	1	Off	18	-	18	2	-	2
		19 Jan. 23	PF	1	Off	18	-	18	2	-	2
Home Sci.	Minimization of nutrient loss in processing	21 Jan. 23	PF	1	Off	-	18	18	-	2	2

	Health's benefits and nutritious value of sahjan	22 <sup>nd</sup> Feb,23	PF	1	Off	-	18	18	-	2	2
	Creation of selfhelp group and its benefit of farm women for income generation.	20 <sup>th</sup> March, 23	PF	1	Off	-	18	18	-	2	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>II<sup>nd</sup> Quarter</b>											

Crop Production	i. Planting technique use trench method in sugarcane.	10 April 2023	PF	1	Off	18	-	18	2	-	2
LPM	Green fodder production throughout the year	12 May 23	PF	1	Off	18	-	18	2	-	2
	Management of milking animal during summer season.	20 June 23	PF	1	Off	18	-	18	2	-	2
	Balance ration for milch animals and heifers	29 June 23	PF	1	Off	18	-	18	2	-	2
Soil Science	i. Role of INM in S.cane.	15 April 23	PF	1	Off	18	-	18	2	-	2
Plant protection	i. Integrated insect management in sugarcane	25 May 23	PF	1	Off	18	-	18	2	-	2
Plant breeding	i. Seed production of basmati rice.	25 May 23	PF	1	Off	18	-	18	2	-	2
Horticulture	i. Cultivation of Bhindi on ridges.	15 April 2023	PF	1	Off	18	-	18	2	-	2
	i. Sowing technique in summer Radish.	19 June 2023	PF	1	Off	18	-	18	2	-	2
	i.Sowing techniques in Banana.	22 June 2023	PF	1	Off	18	-	18	2	-	2

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>III<sup>rd</sup> Quarter</b>											
Crop Production	i. Production technology of intercropping in autumn Sugarcane	20 Sept. 23	PF	1	Off	18	-	18	2	-	2
	Role of Sulphur & thinning practice in mustard	28 Sept. 23	PF	1	Off	18	-	18	2	-	2

Horticulture	i. Fertilizer management in Marigold crop.	16 July 23	PF	1	Off	18	-	18	2	-	2
	i. Preparation of nursery in Tomato crop	13 Aug 23	PF	1	Off	18	-	18	2	-	2
	i. Fertilizer management in Mango orchard	25 Aug. 23	PF	1	Off	18	-	18	2	-	2
	i. Nursery raising in Marigold	19 Sept. 23	PF	1	Off	18	-	18	2	-	2
	i. Sowing techniques in Gladiolus flower crop	25 Sept. 23	PF	1	Off	18	-	18	2	-	2
LPM	Effect of deworming in farm animals	14 July 2023	PF	1	Off	18	-	18	2	-	2
	Infertility problem in dairy animal.	11 Aug. 23	PF	1	Off	18	-	18	2	-	2
	Feeding management in milking dairy animal.	13 Sept. 23	PF	1	Off	18	-	18	2	-	2
Soil Science	i. Technique of vermin and Nadeb compost production Use of sulphur in pulse crops.	17 July 23	PF	1	Off	18	-	18	2	-	2
	ii. Water management through mulching	02 Aug. 23	PF	1	Off	18	-	18	2	-	2
Plant Protection	i. Management of termite in <i>kharif</i> crops	20 July 23	PF	1	Off	18	-	18	2	-	2
Plant breeding	i. Seed production of scented rice.	04 July 23	PF	1	Off	18	-	18	2	-	2
	ii. Identification of off-type plant & their roughing technique in basmati rice.	28 Sept. 23	PF	1	Off	18	-	18	2	-	2
Home Scie.	Role of women in agriculture	28 <sup>th</sup> Aug, 2023	PF	1	Off	-	18	18	-	2	2
	Selection, grading and selling of food items.	17 Sept, 2023	PF	1	Off	-	18	18	-	2	2
	Household food security by nutrition gardening through organic farming	23 <sup>rd</sup> Sept, 2023	PF	1	Off	-	18	18	-	2	2



Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IVth Quarter</b>											
Crop Production	Production technology of timely sown wheat	25 Oct. 23	PF	1	Off	18	-	18	2	-	2
	Production technology Autumn planting sugarcane	28 Oct.23	PF	1	Off	18	-	18	2	-	2
	Weed management in wheat	4 Dec. 23	PF	1	Off	18	-	18	2	-	2
Horticulture	i. Sowing techniques in Garden pea.	15 Oct 23	PF	1	Off	18	-	18	2	-	2
	i. Garlic plantation on ridges	17 Nov.23	PF	1	Off	18	-	18	2	-	2
	i. Rejuvenation in mango orchards	18 Dec. 23	PF	1	Off	18	-	18	2	-	2
LPM	Care and management of newly born calves.	08 Nov. 23	PF	1	Off	18	-	18	2	-	2
	Care of milch animals and calves in winter season.	12 Dec. 23	PF	1	Off	18	-	18	2	-	2
Soil Science	i. Importance of water soluble fertilizers in rabi crops .	29 Oct. 23	PF	1	Off	18	-	18	2	-	2
	ii. Making & use of Daspariya Arke.	16 Nov. 23	PF	1	Off	18	-	18	2	-	2
Plant Protection	i. Management of early and late blight disease in potato	18 Dec. 2023	PF	1	Off	18	-	18	2	-	2
Plant Breeding	i. Seed production of HYV of Wheat.	12 Oct. 22	PF	1	Off	18	-	18	2	-	2
	ii. Importance of isolation distance in mustardseed production.	23 Oct. 23	PF	1	Off	18	-	18	2	-	2
Home Sci.	i. Awareness of Immunization and its schedule	20 Oct. 23	PF	1	Off	-	18	18	-	2	2
	ii.Reduction of time & drudgery by the use of improved Agricultural implements	20 <sup>th</sup> Nov., 2023	PF	1	Off	-	18	18	-	2	2
	iii. To impart knowledge of rural women about care of milch animal	29 <sup>th</sup> Nov., 2023	PF	1	Off	-	18	18	-	2	2
	iv. Role of vitamin & minerals in diet	20 <sup>th</sup> Dec., 2023	PF	1	Off	-	18	18	-	2	2
	v.To impart knowledge for rural women related to roof top kitchen gardening.	22 <sup>nd</sup> Dec., 2023	PF	1	Off	-	18	18	-	2	2

## ON Campus/ OFF Campus : Vocational training programme for Rural Youth (ON/OFF Campus)

Subject	Title	Date	Thrust Area	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
							M	F	Total	M	F	Total

<b>IInd Quarter</b>												
LPM	Dairy Farming.	June 23	Promotion of Dairy farming	RY	5	On/Off	08	-	08	2	-	2
Plant breeding	Seed production technique of scented basmati rice	June 23	Promoting seed production technique	RY	5	On/Off	08	-	08	2	-	2
<b>IIIrd Quarter</b>												
Crop production	Production technique of BGA and Azola.	Sept. 23	Organic manure	RY	5	On/Off	08	-	08	2	-	2
Soil Science	Natural farming component production	July 23	promotion of natural farming	RY	5	On/Off	08	-	08	2	-	2
Horticulture	Nursery mang. of cucumber and capsicum and tomato under polyhouse.	July 23	Nursery management	RY	5	On/Off	08	-	08	2	-	2
LPM	Goat farming	12-16 Sept. 23	Goat farming	RY	5	On/Off	08	-	08	2	-	2
Home Sci.	Processing and value addition of spices and medicinal plants	Sept. 23	Value addition	RY	5	On/Off	-	08	08	-	2	2
<b>IV<sup>th</sup> Quarter</b>												
Plant Breeding	Technique of quality wheat seed production	07-11 Nov. 2023	Seed Production	RY	5	On/Off	08	-	08	2	-	2
Horticulture	Rose & Gerbera production under poly houses	Nov. 23	Protected Cultivation	RY	5	On/Off	08	-	08	2	-	2

LPM	Poultry farming	Dec. 23	Techniques of Poultry farming	RY	5	On/Off	08	-	08	2	-	2
Home Sci.	Clothing making-Embroidery, Stitching	Dec. 23	Women empowerment	RY	5	On/Off	08	-	08	2	-	2

### (iii) Training Programme for Extension Functionaries

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total

<b>Ist Quarter</b>												
Crop Production	Production technology of intercrop in spring sugarcane	23 Feb. 23	EF	1	On/Off	08	-	08	2	-	2	
Horticulture	Intercropping vegetable with spring sugarcane	6 Feb. 23	EF	1	On/Off	08	-	08	2	-	2	
LPM	Feeding management of Goat.	15 March 23	EF	1	On/Off	08	-	08	2	-	2	
Soil Science	Importance of Natural farming for soil health	21 Jan 2023	EF	1	On/Off	08	-	08	2	-	2	
	Use of fertilizers on the bases of soil test.	22Feb. 2023	EF	1	On/Off	08	-	08	2	-	2	
Plant Breeding	Importance of isolation & roughing in seed production of wheat.	14 March 2023	EF	1	On/Off	08	-	08	2	-	2	
Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST			
						M	F	Total	M	F	Total	
<b>IInd Quarter</b>												
Crop production	Nursery management in paddy	08 May 23	EF	1	On/Off	08	-	08	2	-	2	
LPM	Management of milking animal during summer season.	19 May 23	EF	1	On/Off	08	-	08	2	-	2	
Horticulture	Selection of plant and planting technique of Guava	6 June 23	EF	1	On/Off	08	-	08	2	-	2	
Soil Science	Importance of soil testing in crop production.	10 June 2023	EF	1	On/Off	08	-	08	2	-	2	
Plant breeding	Seed Production of moong bean& urd bean.	05 April 23	EF	1	On/Off	08	-	08	2	-	2	
	Seed production technique of paddy	16 June 23	EF	1	On/Off	08	-	08	2	-	2	

<b>IIIrd quarter</b>											
Crop production	Weed management in Major Rabi crops	Sept.	EF	1	On/Off	08	-	08	2	-	2
LPM	Importance of vaccination in dairy animals	25 Aug. 23	EF	1	On/Off	08	-	08	2	-	2
	Importance of mineral mixture & vitamins in animal feeds	26 Sept. 23	EF	1	On/Off	08	-	08	2	-	2
Soil Science	Making techniques of Beejaamrit & Jeevaamrit	19 Aug. 2023	EF	1	On/Off	08	-	08	2	-	2
Horticulture	INM in commercial fruits	8 Aug 23	EF	1	On/Off	08	-	08	2	-	2
Plant Protection	Use and Importance of bio pesticides on crop production.	10 Aug. 23	EF	1	On/Off	08	-	08	2	-	2
Plant breeding	Seed Production of scented rice.	04 Sept. 23	EF	1	On/Off	08	-	08	2	-	2
Home Sci.	Health`s benefits and nutritious value of sahjan (Drum stick)	30 August, 2022	EF	1	On/Off	-	08	08	-	2	2

<b>IVth Quarter</b>											
LPM	Use of mineral mixture and its importance for milch animals	9 Nov. 23	EF	1	On/Off	08	-	08	2	-	2
Soil Science	Use of water soluble fertilizers in wheat.	10 Nov. 2023	EF	1	On/Off	08	-	08	2	-	2
Horticulture	Nursery raising of cucurbits	16 Dec. 23	EF	1	On/Off	08	-	08	2	-	2
Plant Breeding	Seed production technique of wheat.	14 Oct. 2023	EF	1	On/Off	08	-	08	2	-	2
Crop Production	Introduction of HYV of wheat	21 Oct. 2023	EF	1	On/Off	08	-	08	2	-	2
Home Sci.	Anemia during pregnancy: its causes prevention and treatment	21 Oct. 2023	EF	1	On/Off	-	08	08	-	2	2

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# **ACTION PLAN**

*January – December, 2023*



## **KRISHI VIGYAN KENDRA HASTINAPUR, MEERUT**

**DETAILS OF ACTION PLAN  
(January to December, 2023)**

**1. GENERAL INFORMATION ABOUT THE KVK**

**1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone	E mail	Website
	Office		
Krishi Vigyan Kendra, Hastinapur, Meerut	01233-280605	<a href="mailto:meerutkvk@gmail.com">meerutkvk@gmail.com</a>	meerut.kvk4.in

**1.2.a. Name and address of host organization with phone, fax and e-mail**

Address	Telephone		E mail	Website
	Office	FAX		
Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut	0121-2888522, 2888511	0121-2888505, 2888540	<a href="mailto:deesvpuat2014@gmail.com">deesvpuat2014@gmail.com</a>	svbpmeerut.a c.in

**1.2.b. Status of KVK website :** Working

**1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :** NA

**1.2.d Status of ICT lab at your KVK :** To be established

**1.3. Name of the Sr. Scientist & Head with phone & mobile No**

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Omvir Singh	09412109215	09412109215	<a href="mailto:meerutkvk@gmail.com">meerutkvk@gmail.com</a>

**1.4. Year of sanction: 1992**

### 1.5. Staff Position (as on 31<sup>st</sup> August , 2022)

S N	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)	Mobile no.	Email id
1	Professor and Head	Dr. Omvir Singh	Professor and Head	Horticulture	37400-67000	211800	07.01.2004	Permanent	OBC	9412109215	omvirsvp@gmail.com
2	Subject Matter Specialist	Dr.(Engg.) Sanjay Singh	Assoc. Professor	Agri. Engg.	15600-39000	156900	10.12.2003	Permanent	Gen	8279642419	sanjaytwofour@gmail.com
3	Subject Matter Specialist	Dr.Rakesh Tiwari	S.M.S/ Asstt. Prof.	Soil Science	15600-39000	101100	21.06.2008	Permanent	Gen	9411820189	191rakeshtiwari@gmail.com
4	Subject Matter Specialist	Smt. VeenaYadav	S.M.S/ Asstt. Prof.	Home Science	15600-39000	89900	23.06.2008	Permanent	OBC	9457263482	veenayadav1020@gmail.com
5	Subject Matter Specialist	Dr. Naveen Chandra	S.M.S/ Asstt. Prof.	Entomology	15600-39000	104100	23.06.2008	Permanent	OBC	9450803857	nchandra120@gmail.com
6	Programme Assistant	Smt. Vibha Sahu	Prog. Assistant	Computer	9300-34800	78800	21.10.1999	Permanent	OBC	9410456174	vibha.sahu1@gmail.com
7	Programme Assistant	Dr. Ashish Tyagi	Prog. Ast./ Farm Manager	Plant Protection	9300-34800	53600	22.07.2008	Permanent	Gen	9837474493	green.ashishtyagi@gmail.com
8	Accountant / Superintendent	Sh Amit Chaudhary	O.S. Cum Accountant	-	9300-34800	70000	10.12.2003	Permanent	OBC	9761444004	amitsvpuat@gmail.com
9	Stenographer	Sh. Sudesh Kumar	Steno	-	5200-20200	46800	15.12.2003	Permanent	SC	9457273887	Sudeshmeerut123@gmail.com
10	Driver	Sh. Upendra Kumar	Jeep Driver	-	5200-20200	33300	02.08.2007	Permanent	OBC	9837194455	-
11	Supporting staff	Sh. Hari Das	Sweeper	-	5200-20200	38600	01.07.1998	Permanent	SC	9760855760	-

**1.6. Total land with KVK (in ha) : 9.20**

S. No.	Item	Area (ha)
1	Under Buildings	2.00
2.	Under Demonstration Units	1.00
3.	Under Crops	5.50
4.	Orchard/Agro-forestry	0.40
5.	Others	0.30
<i>Total</i>		<b>9.20</b>

**1.7. Infrastructural Development:**

**A. Buildings**

S. N.	Name of building	Source of funding	Complete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)
1.	Administrative Building	ICAR	23.05.2009	510	54.88
2.	Farmers Hostel	ICAR	30.06.2007	300	22.92
3.	Staff Quarters (6)	ICAR	30.06.2007	400	26.72
4.	Demonstration Units (2)	ICAR	30.06.2007	160	11.06
5	Fencing	ICAR	30.06.2007	1000	13.77
6	Threshing floor	ICAR	30.06.2007	300	2.34
7	Farm godown	ICAR	30.06.2007	60	3.63
8	Soil testing lab	ICAR	30.05.2006	80	3.20
<b>Total</b>					<b>138.52</b>

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2017	5,10,000	235 hours	Good
Jeep (Bolero)	2007	5,32,000	165631	Working
Motor cycle	1992	28,000	80000	Condemn



### C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Cultivator	2017	-	working
Disk Harrow	2017	-	working
Rotavator	2017	-	working
Ridge Maker disc type	2017	-	working
Seed dril	1993	-	Non-working
Seed cum fertilizer drill 11 tiyen	1993	-	Non-working
Trolly (Tractor)	1994	-	Working
Paddy Puddler (Cage Wheel)	1994	-	Working
Potato Planter	1998	-	Working
ThresserSonalika	1998	-	Working
Oven	1993	-	Working
LCD Projector	2007	125000	Working
Over Head Projector	1995	12000	Working
TV	1995	18000	Working
Disc Harrow (14 Wheel)	2006	27000	Working
DVD/CD Player	2007	2500	Working
Taka Machine (Chef Cutter)	2008	8700	Working
Computer	2011	20000	Working
Camera Sony	2011	11428	Working

#### 1.8. SAC meetings to be conducted in the year

Sl.No.	Date
Scientific Advisory Committee Meeting	December 2022

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises

SN	Farming system /enterprise
1	Cropping (Sugarcane-Ratoon-Wheat) + Live Stock
2	Crop Cultivation (Rice-Wheat) + Live Stock
3	Horticulture (Vegetable) + Live Stock
4	Horticulture (Flower) + Live Stock + Cropping

### 2.2 a) Description of Agro-climatic Zone & major agro ecological situations

S N	Agro-climatic Zone	Characteristics
1	Western plain zone	<ol style="list-style-type: none"> <li>The zone includes districts of Muzaffarnagar, Meerut, Baghapat, Ghaziabad, Gautam Budh Nagar, Bundelkhand and parts of Saharanpur located between the Ganga and Yamuna River and their tributaries.</li> <li>The zone is highly productive with light coloured loam soil. The average annual rainfall is 795 mm.</li> <li>Relative humidity range from 32 to 85% and the temperature ranges from 2.5<sup>0</sup> C to 43<sup>0</sup>C. Rice wheat sugarcane based cropping system is prevalent in the zone.</li> </ol>

### b) Topography

S N	Agro Ecological Situation	Characteristics					
		Soil Type	P <sup>H</sup>	Farming system	Major crops	Live stock	Block
1	AES I	Loam	7.5-8.5	Sugarcane-Ratoon-Wheat, Agro forestry and/or Jower-wheat (2-3 Graded buffalo/1 Cross bread cow)	Sugarcane, wheat, Paddy, potato, vegetable, jower	Buffalo, cow, Poultry, Sheep & Goat	Mawana, Pariksheetgarh, Machhra, Kharkoda, Rajpura, Meerut, Duaralla, Sardhana, Saroorpur, Rohta, Jani
2	AES II	Loam Sand	7.0-8.0	Sorghum-Potato-Cucurbits and/or Sugarcane-Ratoon-Wheat (2-3 Graded buffalo/ 1 Cross bred cow)	Sugarcane, Potato, Wheat, Mango, Bajra, Jower	Buffalo, cow, Poultry, Sheep & Goat	Hastinapur, Pariksheetgarh, Machhra, Kharkhoda, Jani, Rohta, Saroorpur, Sardhana

3	AES II	Sandy loam, Silty loam, Clay laom	7.5-7.9	Paddy-wheat and/or Jower-Wheat- Sugarcane –Ratoon- Wheat (2-3 Graded buffalo/ 1 Cross bred cow)	Sugarcane, Paddy, Wheat, Jower, Vegetable	Buffalo, cow, Poultry, Sheep & Goat	Hastinapur, Pariksheetgarh
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### 2.3 Soil type/s

SN	Soil type	Characteristics	Area in ha
1	Sandy loam to loam with normal pH	The soils have enough clay to store adequate amounts of water and plant nutrients for optimum plant growth. They contain enough silt to hold sufficient available water for plants, to gradually from more clay and to release fresh plant nutrients by weathering. Clay content is not much as to cause poor aeration or to make working with them difficult. A soil containing between 7 to 27% clay and approximately equal amount of silt and sand has a loam texture. Organic content in the soil is 0.3 to 0.4%.	<b>Total –259000</b> a) Cultivated Land- 20,000 b) Forest area- 21314 c) Usar Land- 2404 d) Other- 35186

### 2.4. Area, Production and Productivity of major crops cultivated in the district (31<sup>st</sup> August , 2022)

SN	Crop	Area (ha)	Production (M.Ton)	Productivity (Qtl /ha)
1	Sugarcane	132624.0	122958363.0	927.12
2	Wheat	79931.0	378933.0	47.41
3	Paddy	14.761	48095.0	32.58
4	Maize	304.0	996.0	32.76
5	<b>Barely</b>	109.0	436.0	40.0
6	<b>Oil seed: Mustard</b>	6309.0	9979.0	15.82
<b>Pulses</b>				
7	Urd	1604.0	2752.0	7.16
8	Gram	17.0	21.86	12.86
9	Moong	42.0	72.0	17.14
10	Pea	468.0	796.0	17.01
11	Lentil	700.0	824.0	11.77
12	Arhar	214.0	182.0	8.50
13	Others (Bajra)	26.0	53.0	20.38

## 2.5. Weather data (31<sup>st</sup> August, 2022)

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		T min	T max	Rh1	Rh2
January	115.00	5.69	18.14	89.94	69.52
February	55.10	8.30	23.03	85.50	59.29
March	0.00	16.86	33.99	70.65	38.26
April	0.10	21.62	40.92	41.53	20.90
May	48.60	23.90	41.09	43.58	22.32
June	85.80	25.55	40.44	55.40	27.63
July	306.70	23.68	33.95	81.06	47.42
August	45.20	25.66	33.65	82.00	52.45

## 2.6 Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production (Lt/day)	Productivity (Lt/day)
<b>Cattle</b>			
Crossbred	133279	1299470.25	9.75
Indigenous	76049	475306.25	6.25
<b>Buffalo</b>	567070	4820095	8.50
<b>Sheep</b>			
Crossbred	482	771.20	1.60
Indigenous	3490	7852.50	2.25
<b>Goats</b>	44353	66529.50	1.50
<b>Pigs</b>			
Crossbred	8947	--	--
Indigenous	12388	--	--
<b>Poultry (Egg)</b>			
Hens	85565	--	273 egg/year
Desi	--	--	79 egg/year
Improved (Dual Purpose)	--	--	167 egg/year
Turkey and others	2483		
<b>Category</b>	<b>Area</b>	<b>Production</b>	<b>Productivity</b>
Inland	--	--	33.00 q/ha

## 2.7 Details of operational area /villages

S N	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Meerut	Kharkhoda	Piplikhera, Kelli, Gheza, KankerKhera, Ataula, Khandawali, Jhinjharpur, Nirpura	Sorghum, Potato Wheat, Mustard Livestock production (2-3-Graded buffalo / 1-Crossbred cow)	High infestation of diseases & insects Unavailability of seed	Integrated pest management Seed production of major crops by farmers to ensure adequate seed availability and Introduction of inter cropping with sugarcane
		Rajpura	Salarpur, Muzaffarpur Saini, Rajpura, Morna, Kastla, Mameypur, Incholi, Kaserukhera	Sugarcane, Pigeon pea, Potato & Wheat	White grub Pest & diseases	Introduction of inter cropping along with IPM in sugarcane
		Daurala	Nihori, Lawad, Mahalka, Macchri, Rasoolpur, Walidpur, Panvari, Meetheypur, Andawali, Eloi, Daurala, Rassolpur	Vegetables, Sugarcane, Wheat Mustard,	Pest & diseases Nutrient deficiency	Pest management Balance fertilization & IPNM
		Meerut	Chandsara, Alipur, Gagol, Phafunda, Fatehullahpur, Noornagar, Tarapuri Rasidnagar	S/cane, Urd, Rice Wheat	-do-	Pest management Balance fertilization & IPNM
2	Sardhana	Sardhana	Mahadev, Kushawli, Begumabad, Nahli, Pali	S/cane, Wheat, Vegetables, Flower	Unavailability of improved var. seed	Seed production
		Suroorpur	Pawarsa, Ikdri, Panchi Buzurg	-do-	Insect & disease	Popularization of bio pesticides
		Rohta	Rohata, Arnavali, Rasana, Shahapur jain pur,	S/cane, wheat	- do-	-do-
		Jani	Baffar, Meerpur, Mohammadpur Dhumi, Khumbha, Siwal Khas, Nagla Kumbha, Bholi Ki Jhal	<b>S/cane, wheat, mustard, paddy &amp; Urd</b>	Lack of seed, high infestation of insect and diseases.	Promotion of seed production, IPM

3	Mawana	Hastinapur	Ganeshpur, Saif pur Meewa Mammudpur Latiffpur, Makan nagar Pali, Nagla gusai, Rani nagla, Matora, Bastura Narang, Nagala Chand, Sikhera, Rathora Khurd, Jora Jalapur, Seena, Tajpura, More Khurd, Rampur Ghoria, Mohammadpur Sikhast, Nagli, Karimpur, Bhadrakali, Behsuma, Tarapur, Pandwan, Makhdoompur, Kunda Chetawala, Bamnoli Badahuakheri, Latifpur, Bheemkhund	Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong	Soil Health i.e. Salinity	INM, organic farming. Promotion of seed production, IPM
		Parikshitgarh	Geshupur, Bonda, Kalirampur, Neemka, Khajuri, Dhanpura, Jithola, Anwarpur, Kohla	Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong	Insects & disease	Promotion of INM & IPM practices
		Mawana Kalan	Meewa, Assa, Matoura, Tatina, Niloha, Pilona, Baizadka, Kunda, Akbarpur Ghari, Bhaisa, Nidawali, Tigri, Geshupur, Sirjepur, Meerpur, Akbarpur Shadat, Mubareekpur, Nagala Ajedi, Nagala Hareur, Phalawada, Chota Mawana,	Sugarcane, Wheat Rice, potato, Mustard, Chickpea, Urd, Moong	Insects & disease	Promotion of INM & IPM practices
		Machara	Maukhas Hasanpur, Kaili Rampur, Dabthala, Behlolpur, Shahjahanpur,	Crops, Vegetables, Bee keeping	Marketing	INM, IPM

## 2.8 Priority thrust areas

<b>S N</b>	<b>Crop/Enterprise</b>	<b>Thrust area</b>
1	Doubling farmers income	Intercropping with winter planting sugarcane
2	Wheat, Paddy, Sugarcane	Promotion of natural farming
3	Vegetable & field crop	Promotion of Drone technology
4	Vegetable & field crop	Promotion of Nano Urea application in crops
5	Nutritional security	Promotion of millets & bio fortified varieties of vegetables in human diet
6	Pulses	Promotions of pulses as intercrop with sugarcane.
7	Resource Conservation	Management of crop residues
8	Integrated Pest Mangt.	Biological control of diseases and pest management
9	Soil Health Mangt.	Soil testing based application of fertilizers

### 3. TECHNICAL PROGRAMME

#### 3. A Details of targeted mandatory activities by KVK

OFT		FLD	
1		2	
Number of OFTs	Number of Farmers	Area in ha.	Number of Farmers
12	40	76.6	265

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
157	2893	764	5067

Seed Production (Qtl.)	Planting material (Nos.)	Production of bio pesticides (kg)	Soil Samples Analysis ( No.)	Development of Soil HealthCards
5	6	7	8	9
200	20000	100	1200	3000



### 3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions				
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Supply of seeds, planting materials etc.
1	Increasing Productivity	Wheat	Low nutritional value of wheat.	Varietal evaluation of Bio-fortified variety of wheat	Performance demonstration of Nano Urea	Spray Nano urea through drone		Seed
		Sugarcane	Low income from sole crop	1. Assessment of intercropping with Autumn planting cane		Intercropping with Autumn planting cane		Seed
2.	Integrated Diseases Management	Sugarcane	Heavy incidence of top borer	Assessment of fungicide to control top borer in Sugarcane		1.Management of Pokka bowing diseases in sugarcane 2.Management of borers in sugarcane through trichocard		Fungicide
		Potato			Management of Late blight of Potato			Fungicide
3		Paddy			Management of Sheeth blight in Paddy			Fungicide
4	Diversification in Farming systems	Potato	Low nutritional value of potato	Assessment of Bio-fortified variety of potato	Intercropping of potato with sugarcane	Introduction of fortified variety of wheat	Crop diversification improves water productivity through Resource Conservation Technology	Potato Seed
		Cauliflower	Low nutritive value of cauliflower	Varietal evaluation of Cauliflower	Management of DVM in cauliflower	Preparation of nursery for early Cauliflower.		Planting Material

		Paddy	Degradation of soil health resulting in low productivity	Assessment of natural farming with respect to existing farming practices in paddy		<ul style="list-style-type: none"> <li>• Importance of Natural farming</li> <li>• Dasparni extract: Preparation and storage method</li> <li>• Preparation of Neemastra and its application in crop pest management</li> <li>• Preparation of Beejamrit</li> <li>• Preparation of Jeevamrit</li> <li>• Preparation of Ghan Jeevamrit</li> </ul>	<ul style="list-style-type: none"> <li>• Important of Nano Fertilizer</li> <li>• Dasparni extract: Preparation and storage method</li> <li>• Preparation of Neemastra and its application in crop pest management</li> <li>• Preparation of Agniyastra and its application in crop pest management</li> </ul>	Nano Fertilizer & Drums
		Wheat	Degradation of soil health resulting in low productivity	Assessment of natural farming with respect to existing farming practices in Wheat			<ul style="list-style-type: none"> <li>• Importance of Natural Farming</li> <li>• Preparation of Ghan Jeevamrit</li> </ul>	Drums
		Marigold		-	Introduction of French marigold hybrid variety	Fertilizer management in Marigold crop. Nursery raising of marigold		Seed
		Gardenpea			Intercropping of garden pea with sugarcane			Seed
5	IPM.	Sugarcane	Heavy incidence of Pokka-bowing disease	Assessment of fungicides to control of Pokka-bowing disease in sugarcane	Management of early shoot borer in sugarcane			Fungicides

		Parwal		-	Management of fruit fly through eco-friendly (cue-lure) traps			Traps & Lure
6	Soil Health management.	Paddy			Application of Ferrous sulphate at the time of field preparation	<ul style="list-style-type: none"> <li>• Importance and role of soil testing in field crops</li> <li>• Fertilizer management in paddy</li> <li>• Residue management</li> </ul>		Fertilizer Ferrous Sulphate
7	Income generation		Value addition & Nutritional Security		Value addition of pulses and vegetable BADIS for gradational income			Pulses and vegetable
8	Nutritional Security	Pulses	Nutrient inadequacy	Assessment of SOY n PRO mixture on the nutritional health				SOY n PRO mixture
	Nutritional Security	Wheat		Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of farm women		<ul style="list-style-type: none"> <li>• Household food security by nutrition gardening through organic farming</li> <li>• To impart knowledge for rural women related to agriculture</li> <li>• Importance of millets in diet &amp; their nutritional importance</li> </ul>	<ul style="list-style-type: none"> <li>• Importance of millets in diet &amp; their nutritional importance</li> </ul>	Seed

	Nutritional Security	Vegetables			Production of organic vegetables in Kitchen Garden	<ul style="list-style-type: none"> <li>• To Promote Bio-fortified varieties in kitchen garden &amp; their nutritional importance</li> <li>• Minimization of nutrient loss in processing</li> <li>• Importance of Poshan Thali</li> </ul>		Vegetable Seed
9	Resource conservation	Sugarcane	Excess use of water in Sugarcane	Drip Irrigation in Sugarcane crop	Use of Power sprayer for spraying of insecticides in Sugarcane crop	<ul style="list-style-type: none"> <li>• Crop residue management for improving the soil health.</li> </ul>	<ul style="list-style-type: none"> <li>• Crop residue management</li> </ul>	-
10		Wheat	Burning of crop residues	Evaluation of crop residue mngt. in wheat	Sowing of wheat by Seeder	Use of windrover and reaper for harvesting wheat crop		-

#### 4.1 Technologies to be assessed and refined

A. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Sugarcane	Vegetables	Fruits	Flowers	Mulching Animal	Tuber Crops	TOTAL
Integrated Crop Management	1									1
Varietal Evaluation	1				2					3
Resource Management	1			1						2
Integrated Pest Management				1						1
Integrated Disease Management				1						1
Integrated Nutrient Management	2									2
Low cost and high nutrient efficiency	2									2
<b>TOTAL</b>	<b>7</b>			<b>3</b>	<b>2</b>					<b>12</b>

#### B. Details of On Farm Trial

##### OFT-1

##### Intercropping with Sugarcane

Crop/Enterprises	Sugarcane
Title of on-farm trial	Assessment of intercropping with Autumn planted Sugarcane
Problem diagnosed	Low income from sole crop
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T <sub>1</sub> - Farmers practice-Sugarcane sole crop
Details of technology	T <sub>2</sub> - Trench planting of sugarcane(Co-0238) at a distance of 4 ft. in Autumn + Lentil var L-4717 (Pusa Ageti Masoor)
Source of technology	IISR, Lucknow
No. of farmers	2 (Area – 0.4 x 2 = 0.8 ha)
Replications/No. of locations	3
Critical input	Seed of Lentil @ 30 kg/ha + insecticide (as per need )
Performance indicators i). Technical	<ul style="list-style-type: none"> <li>• No. of tillers</li> <li>• Water saving</li> </ul>

ii). Economic	<ul style="list-style-type: none"> <li>• Yield /ha</li> <li>• LER</li> <li>• Net income</li> <li>• B.C. ratio</li> <li>• Social acceptance</li> </ul>
iii).Social	
Expected expenditure	(Aprox. Exp. Rs 5000/-)

## OFT-2

### Varietal evaluation of Wheat

Crop/Enterprises	Wheat
Title of on-farm trial	Varietal evaluation of Bio-fortified variety of wheat
Problem diagnosed	Low nutritional value of wheat.
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T <sub>1</sub> - Farmers practice-HD-2967
Technology to be assessed	T <sub>2</sub> - Wheat variety-WB – 02 (biofortified rich in Zinc 42 ppm and Iron 40 ppm)
Source of technology	ICAR- IIWBR, Karnal
No. of farmers	3 (Area – 0.4 x 2 = 0.8 ha)
Replications/No. of locations	3
Critical input	Wheat seed (WB- 02) @ 40.0 Kg. per acre.
Performance indicators i). Technical ii). Economic iii).Social	<ul style="list-style-type: none"> <li>• No. of tillers/one meter row length</li> <li>• Days of maturity</li> <li>• Disease resistance</li>   <li>• Yield /ha</li> <li>• Net income</li> <li>• B.C. ratio</li> <li>• Social acceptance</li> <li>• Taste and quality</li> </ul>

**OFT-3****Varietal evaluation of Cauliflower**

Crop/Enterprises	Cauliflower
Title of on-farm trial	Varietal evaluation of Cauliflower
Problem diagnosed	Low nutritive value of cauliflower
Thematic area	Varietal
Farming situation	Irrigated
Farmer's practices	T <sub>1</sub> - Farmer practices – White snowball
Details of technologies selected for assessment/refinement	T <sub>2</sub> - Sowing of cauliflower variety-Pusa Beta Kesari-1 (Rich in Beta carotene 8-10ppm)
Source of technology	IARI, New Delhi
No. of farmers/ No. of locations	03
Replications	03
Critical input	Seeds of cauliflower
Performance indicators i). Technical  ii). Economic  iii) Social	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net profit (Rs/ha),</li> <li>• Production of per ha.</li> <li>• B:C ratio</li> <li>• Acceptability of technology</li> </ul>
Expenditure	(Aprox. Exp. Rs 6000/-)

**OFT-4****Variety Evaluation of potato**

Crop/Enterprises	<b>Potato</b>
Title of on-farm trial	Assessment of Bio-fortified variety of potato
Problem diagnosed	Low nutritional value of potato
Thematic area	Varietal evaluation
Farming situation	Irrigated

Farmer's practices	T <sub>1</sub> - Farmer practices – Plantation of Variety Kufri Bahar
Details of technology to be assessed	T <sub>2</sub> – Plantation of variety- Kufri Neelkanth
Source of technology	CPRI
No. of farmers/ No. of locations	03
Replications	03
Critical input	Potato seed- Variety Kufri Neelkanth
Performance indicators i). Technical  ii). Economic  iii) Social	<ul style="list-style-type: none"> <li>● Maturity duration</li> <li>● Disease infestation</li> <li>● Yield Qtls./ha.</li> <li>● Cost of cultivation</li> <li>● Net profit (Rs/ha),</li> <li>● B:C ratio</li> <li>● Feasibility of technology</li> </ul>
Expenditure	(Aprox. Exp. Rs 6500/-)

#### OFT-5

##### Control of early shoot borer in Sugarcane

Crop/Enterprises	Sugarcane
Title of on-farm trial	Assessment of fungicide to control top borer in Sugarcane
Problem diagnosed	Heavy incidence of top borer
Thematic area	IPM
Farming situation	Irrigated
Farmer's practices	Application of carbofuron @ 25kg/ha
Details of technologies selected for assessment/refinement	T <sub>1</sub> - carbofuron@ 10kg/acre. T <sub>2</sub> Tetraniliprole 18.18 % SC @ 200 ml/acre
Source of technology	S.V.P.U.A. & T., Meerut.
No. of farmers	3
Replications/No. of locations	3
Critical input	Tetraniliprole 18.18 % SC (Vayego)



Performance indicators i). Technical  ii). Economic  iii). Social	<ul style="list-style-type: none"> <li>• No of dead hearts affected (%)</li> <li>• Severity of incidence</li> <li>• Yield/ha.</li> <li>• Cost of cultivation</li> <li>• Net profit</li> <li>• B:C Ratio</li> <li>• Feasibility of technology</li> </ul>
Expenditure	(Aprox. Exp. Rs. 4500/-)
Name of Scientist	Dr Naveen Chandra , Assistant Prof. (Plant Protection)

### OFT-6

#### Management of Sheath Blight in Paddy

Crop/Enterprises	Sugarcane
Title of on-farm trial	Assessment of fungicides to control of Pokka-bowing disease in sugarcane
Problem diagnosed	Heavy incidence of Pokka-bowing disease
Production system and thematic area	Paddy-Sugarcane-Wheat (IDM)
Farming situation	Irrigated
Farmer's practices	T <sub>1</sub> - Application of Copper Oxy chloride 50 W.P.. @ 3 kg/ha
Details of technologies selected for assessment	T <sub>2</sub> – Application of Azoxystrobin 8.3 % + Mancozeb 66.7 % @ 500 ml./ha.
Source of technology	IISR, Lucknow
No. of farmers	3
Replications/No. of locations	3
Critical input	Fungicide- Azoxystrobin 8.3 % + Mancozeb 66.7 % (Avancer glow)
Performance indicators i). Technical ii). Economic  iii). Social	<ul style="list-style-type: none"> <li>• Disease severity (%) ,</li> <li>• Yield/ha.</li> <li>• Cost of cultivation</li> <li>• Net profit</li> <li>• B:C Ratio</li> <li>• Feasibility of technology</li> </ul>
Expenditure	(Aprox. Exp. Rs. 10000/-)
Name of Scientist	Dr Naveen Chandra , Assistant Prof. (Plant Protection)

**OFT-7****Evaluation of natural farming practices in Paddy**

Crop /Enterprise	Paddy
Title	Assessment of natural farming with respect to existing farming practices in paddy
Problem diagnosed	Degradation of soil health resulting in low productivity
Farming situation	Irrigated
Farmer's Practice	Use of N:P:K @ 100:60:40
Source of Technology	IIFSR, Modipuram, Meerut
Details of technologies	T <sub>1</sub> : Farmers Practice (N, P, K, 80:60: 40) kg/ha.
	T <sub>2</sub> : Application of natural farming practices
No. of families	03 (0.4 x 3 = 1.2 ha.)
Critical Input	Micro nutrients as per need
Performance indicators iv) Technical  v) Economic  iii)Social	<ul style="list-style-type: none"> <li>• Yield/ha.</li> <li>• No. of tiller/hill</li> <li>• Insect incidence (%)</li> <li>• Infestation of weed</li>   <li>• Cost of cultivation</li> <li>• Net profit</li> <li>• B:C ratio</li> <li>• Feedback of farmer</li> </ul>
Expenditure	(Aprox. Exp. Rs. 9000/-)
Name of Scientist	Dr Rakesh Tiwari, SMS (Soil Science)

**OFT-8****Evaluation of natural farming practices in wheat**

Crop /Enterprise	Wheat
Title	Assessment of natural farming with respect to existing farming practices in Wheat
Problem diagnosed	Degradation of soil health resulting in low productivity
Farming situation	Irrigated

Farmer's Practice	Use of N:P:K @ 150:60:40
<b>Source of Technology</b>	IIFSR, Modipuram, Meerut
Details of technologies selected for assessment	T <sub>1</sub> -Farmer Practice (N,P,K, 80:60: 40 kg/ha.) T <sub>2</sub> - Application of natural farming practices
No. of families	3 (0.4 x 3 = 1.2 ha.)
Critical Input	Micro nutrients as per need
Performance indicators iv) Technical  v) Economic  vi) Social	<ul style="list-style-type: none"> <li>• Yield/ha.</li> <li>• No. of tiller/hill</li> <li>• Insect incidence (%)</li> <li>• Infestation of weed</li> <li>• Cost of cultivation</li> <li>• Net profit</li> <li>• B:C ratio</li> <li>• Feedback of farmer</li> </ul>
Expenditure	(Aprox. Exp. Rs. 9000/-)
Name of Scientist	Dr. Rakesh Tiwari, SMS (Soil Science)

### OFT-9

#### Feeding of SOY n Pro mixture

Particulars	Details
Title of OFT	Assessment of SOY n PRO mixture on the nutritional health of children suffering from malnutrition.
Problem diagnosed	Protein energy malnutrition due to unscientifically prepared supplementary foods for children
Thematic Area	Design and development of low cost and high nutrient efficiency diet
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice (Milk, ghee, cereals) T <sub>2</sub> - Preparation of SOY n PRO mixture of Soya bean 1.2 Kg, Gram- 1 kg. Peanut, 1 Kg , (25-30gm/twice a day (in children)
Source of Technology	CIAE Bhopal
Characteristics of Technology	High in Protein, energy and vitamins
No of Trail	05
Critical Input	SOY n PRO mixture
Performance Indicator/Parameter	Technical observations Anthropometric measurements Estimation of nutritional value Farmer Reaction and Feedback
Expenditure	(Aprox. Exp. Rs. 2500/-)
Name of Scientist	Smt. Veena Yadav, Assistant Professor (Home Science)

**OFT-10****Preparation of fortified wheat flour**

<b>Particulars</b>	<b>Details</b>
Title of OFT	Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of farm women
Problem diagnosed	Nutrient inadequacy
Thematic Area	Nutritional Security
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice – Wheat flour only ( Protein 10-11 %, Iron 1.0-1.2 mg/100 gm T <sub>2</sub> - Fortified - wheat flour (75 %) + gram Flour (20%) + Barley (5 %) for 180 days
Source of Technology	NIN, Hyderabad
Characteristics of Technology	5. High in Protein, energy and Iron 6. High Palatability 7. Availability in all season
No of Trail	05
Critical Input	Wheat, + Gram Flour, + Barley flour
Performance Indicator/Parameter	Nutritive value Hemoglobin Level Adoption & Technology
Expenditure	(Aprox. Exp. Rs. 4000/-)
Name of Scientist	Smt. Veena Yadav, Assisstant Professor (Home Science)

**OFT-11**

<b>Particulars</b>	<b>Details</b>
Title of OFT	Drip Irrigation in Sugarcane crop
Problem diagnosed	Excess use of water in Sugarcane
Thematic Area	RCT
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice – Irrigation in flood system T <sub>2</sub> - Drip Irrigation
Source of Technology	Sugarcane research institute, Lucknow

Characteristics of Technology	1. High yielding 2. Time and labour saving 3. Saving of water
No of Trail	03
Critical Input	Drippers, Lateral lines, Sub lines etc.
Performance Indicator/Parameter	Percentage of water saving Germination percentage Crop Growth Yield B:C Ratio
Expenditure	(Aprox. Exp. Rs. 25000/-)
Name of Scientist	Dr. (Engg) Sanjay Singh , Associate Director (Agriculture Engineering)

### OFT-12

Particulars	Details
Title of OFT	Evaluation of crop residue management in wheat
Problem diagnosed	Burning of crop residues
Thematic Area	RCT
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice – Sowing after burning of crop residue. T <sub>2</sub> - Sowing of wheat after incorporation of crop residue by mulcher
Source of Technology	PAU, Ludhiyana
Characteristics of Technology	1. High yield 2. Time , labour and water saving
No of Trail	03
Critical Input	Hiring of Tractor
Performance Indicator/Parameter	1.Germination percentage 2.Crop Growth 3.Yield 4.B:C Ratio
Expenditure	(Aprox. Exp. Rs. 5000/-)
Name of Scientist	Dr. (Engg) Sanjay Singh , Associate Director (Agriculture Engineering)

## 5. FRONT LINE DEMONSTRATIONS

### A. Details of FLDs to be organized during 2022-23

S N	Crop	Variety	Thematic Area	Technology for demonstration	Critical Inputs	Season / Year	Area (ha)	No. of Demo.	Parameter Indicators	Expected Exp. (Rs.)
<b>Oilseed and pulses</b>										
1	Green Gram	IPM 2-3	Varietal evaluation	Introduction of improved variety IPM 2-3	Seed 18 kg/ha.	Zaid-2023	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>	Under CFLD
2	Black Gram	Shekhar-2	Varietal evaluation	Improved variety Shekhar-2	Seed 18.0 kg/ha	Kharif-2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>	Under CFLD
3	Lentil	Pusa Ageti Masoor	Varietal evaluation	Improved variety Pusa Ageti Masoor	Seed 36.0 kg/ha	Rabi 2023 -24	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>	Under CFLD
4	Mustard	Pusa RH-749	Varietal evaluation	Improved variety	Seed 5.0 kg/ha + Sulphur 40 kg/ha	Rabi 2023-24	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>	Under CFLD
<b>Others</b>										
5	Onion	Pusa - 1692	Varietal evaluation	Introduction of new variety Pusa -1692	Seed 30 kg/ha	Kharif-2023	4.0	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	5040.00
6	Wheat	DBW-173	INM	Performance demonstration of nano urea (0.5 lit/acre as second & third spray)	Nano urea 500 ml/farmer	Rabi 2023 -24	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	10000.00
7	Marigold	Red brocade	Varietal evaluation	Introduction of French marigold hybrid variety (Red brocade)	Seed 1.5 kg/ha	Kharif-2023	0.8	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	6750.00

8	Onion	Agrifound dark Red	Varietal evaluation	Intercropping of onion with sugarcane (1:2)	Seed 12.0 kg/ha	Rabi 2023-24	0.4	05	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	6300.00
9	Garden pea	PS-10	Varietal evaluation	Intercropping of garden pea (PS-10) with sugarcane (1:1)	Seed 80 kg/ha	Rabi 2023-24	0.4	05	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	5500.00
10	Potato	Kufri Mohan	Varietal evaluation	Intercropping of potato (Kufri Mohan) with sugarcane (1:1)	Seed 14 qtls/ha	Rabi 2023-24	0.4	05	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	10000.00
11	Paddy	Pusa-1509	Integrated Nutrient Management	Application of Ferrous sulphate @ 25 kg/ha at the time of field preparation	Ferrous sulphate Two spray	Kharif-2023	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	5000.00
12	Potato	Kufri Bahar	Integrated Disease Management	Management of late blight of potato by fluopicolide 55.6 % w/w hydrochloride 55.6 @ 1250 ml/ha	Infinito fluopicolide hydrochloride	Rabi-2023-24	4.0	10	<ul style="list-style-type: none"> <li>• Disease incidence (%)</li> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	15000.00
13	Cauliflower		Integrated Pest Management	Management of DVM in cauliflower using Spinoshed 45 % SC @ 150 ml/ha	Spinoshed	Rabi-2023-24	4.0	10	<ul style="list-style-type: none"> <li>• Insect incidence (%)</li> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	15000.00
14	Paddy	Pusa 1509	Integrated Disease Management	Management of sheeth blight in paddy by Azoxystrobin 23 % SC @ 800 ml/ha.	Azoxystrobin	Kharif- 2023	4.0	10	<ul style="list-style-type: none"> <li>• Disease Incidence (%)</li> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	15000.00
15	Parwal	Swarn Rekha	Integrated Pest Management	Management of fruit fly through eco-friendly (cue-lure) traps 5 Traps/	Traps	Zaid -2023	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	15000.00

				acre + 2 cue-lure					• Yield increase (%)	
16	Sugarcane	Co-0238	Integrated Pest Management	Mang. of early shoot borer in sugarcane by Thiamethoxam 1 % + chlorantraniliprole 0.5 % GR	Thiamethoxam chlorantraniliprole (Vertako)	Kharif-2023	4.0	10	<ul style="list-style-type: none"> <li>• Disease incidence (%)</li> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>	7500.00
17	Income generation through Pulses and vegetable	-	Value addition	Value addition of pulses and vegetable BADIS for gradational income	Pulses and vegetable,+ spices	Zaid (2023)	0.15	10	<ul style="list-style-type: none"> <li>• Keeping quality</li> <li>• Net return</li> <li>• Nutritive value</li> <li>• C:B ratio</li> </ul>	2500.00
18	Kitchen Garden	Zaid vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable seeds	Zaid 2023	0.15	15	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	4500.00
		Kharif-vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetables seeds	Kharif-2023	0.15	15	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	4500.00
		Rabi vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable seeds	Rabi 2023	0.15	15	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>	4500.00
19	Sugarcane Crop	Co- 0238	Resource Conservation Technology	Use of power sprayer for spraying of insecticides in sugarcane crop	Hiring of power sprayer	Kharif -2023	4.0	10	<ul style="list-style-type: none"> <li>• Efficiency of the machine</li> <li>• Field capacity of the machine</li> <li>• Cost of Operation</li> </ul>	15000.00
20	Wheat	HD -2967	Resource Conservation Technology	Sowing of wheat by seed drill	Hiring of tractor	Rabi 2023-24	4.0	10	<ul style="list-style-type: none"> <li>• Efficiency of the machine</li> <li>• Field capacity of the machine</li> <li>• Cost of Operation</li> </ul>	10000.00
<b>Total</b>							<b>76.6</b>	<b>265</b>		<b>157090.00</b>



**B. Extension and Training activities under FLDs during year -2023**

<b>SN</b>	<b>Activity</b>	<b>No. of activities</b>	<b>Month</b>	<b>Approximate number of participants</b>
1	Field days	06	July, August, Nov, Dec	180
2	Farmers Training	12	June, July, Sept., Oct., Dec., Jan, Feb, March	240
3	Media coverage	20	June., Sep., Oct., Nov., Dec.	Mass
4	Training for extension functionaries	07	May, July., Sep., Nov.,	105

## 6. Training (Including the sponsored and FLD training programmes):

### A. ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		M	F	Total	M	F	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Integrated Crop Management	4	68	-	68	12	-	12	80
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	1	17	-	17	3	-	3	20
<b>b) Fruits</b>								
Layout and Management of Orchards	1	17	-	17	3	-	3	20
Management of young plants/orchards	1	17	-	17	3	-	3	20
<b>c) Tuber crops</b>								
Production and Management technology	1	17	-	17	3	-	3	20
<b>III Soil Health and Fertility Management</b>								
Integrated Nutrient Management	1	17	-	17	3	-	3	20
Production and use of organic inputs	1	17	-	17	3	-	3	20
Micro nutrient deficiency in crops	1	17	-	17	3	-	3	20
Soil and Water Testing	1	17	-	17	3	-	3	20
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	2	-	34	34	-	6	6	40
Location specific drudgery reduction tech.	1	-	17	17	-	3	3	20
Women and child care	1	-	17	17	-	3	3	20
Kitchen gardening through organic farming method	1	-	17	17	-	3	3	20
Minimization of nutrient loss	1	-	17	17	-	3	3	20
<b>V Plant Protection</b>								
Integrated Pest Management	3	51	-	51	9	-	9	60
Integrated Disease Management	1	17	-	17	3	-	3	20
Bio Control	3	51	-	51	9	-	9	60
<b>VI Agric. Engg.</b>								
Repair & Maintenance	3	51	-	51	9	-	9	60
Drip Irrigation	1	17	-	17	3	-	3	20
<b>TOTAL</b>	<b>29</b>	<b>391</b>	<b>102</b>	<b>493</b>	<b>69</b>	<b>18</b>	<b>87</b>	<b>580</b>
<b>(B) Rural youth</b>								
Seed production	2	15	-	15	3	2	5	20
Skill Development	2	15	-	15	3	2	5	20
Bee Keeping	1	7	-	7	3	-	3	10
Mushroom Production	1	7	-	7	3	-	3	10
Vermi-culture	1	7	-	7	3	-	3	10
Protected cultivation of vegetable crops	1	7	-	7	3	-	3	10
Nursery Management of Horticulture crops	1	7	-	7	3	-	3	10
Value addition	1	-	8	8	-	2	2	10
Women empowerment	1	-	8	8	-	2	2	10
Soil Testing	2	15	-	15	5	-	5	20
<b>TOTAL</b>	<b>13</b>	<b>80</b>	<b>16</b>	<b>96</b>	<b>26</b>	<b>08</b>	<b>34</b>	<b>130</b>

<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	4	48	-	48	12	-	12	60
Integrated Pest Management	2	34		34	6		6	40
Integrated Disease Management	2	34		34	6		6	40
Bio -Control	6	110		110	10		10	120
Integrated Nutrient management	4	48	-	48	12	-	12	60
Household food security	3	-	40	40	-	05	05	45
Women and Child care	1	-	10	10	-	05	05	15
Any other (Pl. Specify) Nursery Management of Horticulture crops	4	48	-	48	12	-	12	60
Operation & Maintenance	3	36	-	36	9	-	9	45
Drip Irrigation	1	12	-	12	3	-	3	15
<b>TOTAL</b>	<b>30</b>	<b>370</b>	<b>50</b>	<b>420</b>	<b>70</b>	<b>10</b>	<b>80</b>	<b>500</b>
<b>G. Total</b>	<b>72</b>	<b>841</b>	<b>168</b>	<b>1009</b>	<b>165</b>	<b>36</b>	<b>201</b>	<b>1210</b>

## B) OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Total
		M		Total	M	F	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Resource Conservation Technologies	3	51	-	51	9	-	9	60
Cropping Systems	4	68	-	68	12	-	12	80
Integrated Farming	1	17	-	17	3	-	3	20
Integrated Crop Management	4	68	-	68	12	-	12	80
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Off-season vegetables								
Nursery raising	2	34	-	34	6	-	6	40
Production and management technology	3	51	-	51	9	-	9	60
<b>b) Fruits</b>								
Layout and Management of Orchards	1	17	-	17	3	-	3	20
Management of young plants/orchards	2	34	-	34	6	-	6	40
Rejuvenation of old orchards	1	17	-	17	3	-	3	20
<b>c) Ornamental Plants</b>								
Nursery Management	1	17	-	17	3	-	3	20
Propagation techniques of Ornamental Plants	1	17	-	17	3	-	3	20
Fertilizer management	1	17	-	17	3	-	3	20
<b>d) Spices</b>								
Production and Management technology	2	34	-	34	6	-	6	40
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	1	17	-	17	3	-	3	20
Integrated Nutrient Management	5	85	-	85	15	-	15	100
Production and use of organic inputs	1	17	-	17	3	-	3	20
Management of Problematic soils	1	17	-	17	3	-	3	20
Micro nutrient deficiency in crops	3	51	-	51	9	-	9	60
Soil and Water Testing	1	17	-	17	3	-	3	20

<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	2	-	34	34	-	6	6	40
Design and development of low/minimum cost diet	1	-	17	17	-	3	3	20
Minimization of nutrient loss in processing	3	-	51	51	-	9	9	60
Gender mainstreaming through SHGs	1	-	17	17	-	3	3	20
Storage loss minimization techniques	1	-	17	17	-	3	3	20
Value addition	1	-	17	17	-	3	3	20
Location specific drudgery reduction technologies	2	-	34	34	-	6	6	40
Women and child care	4	-	65	65	-	15	15	80
<b>V Plant Protection</b>								
Integrated Pest Management	6	102	-	102	18	-	18	120
Integrated Disease Management	6	102	-	102	18	-	18	120
Bio-control of pests and diseases	8	136	-	136	24	-	24	160
<b>VI Agril.Engg.</b>								
Repair & Maintenance	10	170	-	170	30	-	30	200
Drip Irrigation	1	17	-	17	3	-	3	20
Operation of laser leveler	1	17	-	17	3	-	3	20
<b>Total</b>	<b>85</b>	<b>1173</b>	<b>252</b>	<b>1425</b>	<b>210</b>	<b>48</b>	<b>258</b>	<b>1683</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		M	F	Total	M	F	Total	
<b>(A) Farmers &amp; Farm Women (ON/OFF)</b>								
<b>I Crop Production</b>								
Resource Conservation Technologies	3	51		51	9		9	60
Cropping Systems	4	68		68	12		12	80
Integrated Farming	1	17		17	3		3	20
Integrated Crop Management	8	136		136	24		24	160
<b>Total</b>	<b>16</b>	<b>272</b>		<b>272</b>	<b>48</b>		<b>48</b>	<b>320</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	3	51	-	51	9	-	9	60
Production and management technology	3	51	-	51	9	-	9	60
<b>b) Fruits</b>								
Layout and Management of Orchards	2	34	-	34	6	-	6	40
Management of young plants/orchards	3	51	-	51	9	-	9	60
Rejuvenation of old orchards	1	17	-	17	3	-	3	20
<b>c) Ornamental Plants</b>								
Nursery Management	1	17	-	17	3	-	3	20
Propagation techniques of Ornamental Plants	1	17	-	17	3	-	3	20
Fertilizer management	1	17	-	17	3	-	3	20
<b>f) Spices</b>								
<b>d) Plantation crops</b>	0	0	0	0	0	0	0	0
<b>e) Tuber crops</b>	0	0	0	0	0	0	0	0
<b>f) Spices</b>	0	0	0	0	0	0	0	0
Production and Management technology	3	51	0	51	9	0	9	60
<b>Total</b>	<b>18</b>	<b>306</b>		<b>306</b>	<b>54</b>	<b>0</b>	<b>54</b>	<b>360</b>
<b>III Soil Health and Fertility Management</b>								

Soil fertility management	1	17	-	17	3	-	3	20
Integrated Nutrient Management	6	102	-	102	18	-	18	120
Production and use of organic inputs	2	34	-	34	6	-	6	40
Management of Problematic soils	1	17	-	17	3	-	3	20
Micro nutrient deficiency in crops	4	68	-	68	12	-	12	80
Soil and Water Testing	2	34	-	34	6	-	6	40
<b>Total</b>	<b>16</b>	<b>272</b>		<b>272</b>	<b>48</b>		<b>48</b>	<b>320</b>
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	4	-	68	68	-	12	12	80
Design and development of low/minimum cost diet	1	-	17	17	-	3	3	20
Minimization of nutrient loss in processing	4	-	68	68	-	12	12	80
Gender mainstreaming through SHGs	1	-	17	17	-	3	3	20
Storage loss minimization techniques	1	-	17	17	-	3	3	20
Value addition	1	-	17	17	-	3	3	20
Location specific drudgery reduction technologies	3	-	51	51	-	9	9	60
Women and child care	5	-	80	80	-	20	20	100
Design and development of low/minimum cost diet	1	-	17	17	-	3	3	20
<b>Total</b>	<b>21</b>		<b>352</b>	<b>352</b>		<b>68</b>	<b>68</b>	<b>420</b>
<b>V Plant Protection</b>								
Integrated Pest Management	9	153	-	153	27	-	27	180
Integrated Disease Management	7	119	-	119	21	-	21	140
Bio Control	11	187	-	187	33	-	33	220
<b>Total</b>	<b>27</b>	<b>459</b>		<b>459</b>	<b>81</b>		<b>81</b>	<b>540</b>
<b>VI Agril. Engin.</b>								
Repair & Maintenance	13	221	-	221	39	-	39	260
Drip Irrigation	2	34	-	34	6	-	6	40
Operation of laser leveler	1	17	-	17	3	-	3	20
<b>Total</b>	<b>16</b>	<b>272</b>		<b>272</b>	<b>48</b>		<b>48</b>	<b>320</b>
<b>(B) RURAL YOUTH</b>								
Seed production	2	15	-	15	3	2	5	20
Skill Development	2	15	-	15	3	2	5	20
Bee Keeping	1	7	-	7	3	-	3	10
Mushroom Production	1	7	-	7	3	-	3	10
Vermi-culture	1	7	-	7	3	-	3	10
Protected cultivation of vegetable crops	1	7	-	7	3	-	3	10
Nursery Management of Horticulture crops	1	7	-	7	3	-	3	10
Value addition	1	-	8	8	-	2	2	10
Women empowerment	1	-	8	8	-	2	2	10
Soil Testing	2	15	-	15	5	-	5	20
<b>TOTAL</b>	<b>12</b>	<b>64</b>	<b>20</b>	<b>84</b>	<b>30</b>	<b>6</b>	<b>36</b>	<b>120</b>
<b>( C)Extension Personnel</b>								
Productivity enhancement in field crops	4	48	-	48	12	-	12	60
Integrated Pest Management	2	34		34	6		6	40
Integrated Disease Management	2	34		34	6		6	40
Bio -Control	6	110		110	10		10	120
Integrated Nutrient management	4	48	-	48	12	-	12	60
Household food security	3	0	40	40	-	05	05	45
Women and Child care	1	0	10	10	-	05	05	15

Any other (Pl. Specify) Nursery Management of Horticulture crops	4	48	-	48	12	-	12	60
Operation & Maintenance	3	36	-	36	9	-	9	45
Drip Irrigation	1	12	-	12	3	-	3	15
<b>TOTAL</b>	<b>30</b>	<b>370</b>	<b>50</b>	<b>420</b>	<b>70</b>	<b>10</b>	<b>80</b>	<b>500</b>
<b>G. Total</b>	<b>157</b>	<b>2014</b>	<b>420</b>	<b>2434</b>	<b>375</b>	<b>84</b>	<b>459</b>	<b>2893</b>

Details of training programmes attached in **Annexure –I**

**7. Extension Activities (including activities of FLD Programmes) during January – December 2023**

S.N.	Nature of Extension Activity	No. of activities	Participants						Grand Total (I+II)		
			Farmers (Others) (I)			Extension Officials(II)			M	F	T
			M	F	T	M	F	T			
1	Field Day	12	214	48	262	8	-	8	222	48	270
2	Kisan Mela	2	750	110	860	50	15	65	800	125	925
3	Kisan Ghosthi	12	828	192	1020	60	-	60	888	192	1080
4	Exhibition	2	432	96	528	12	-	12	444	96	540
5	Film Show	2	72	16	88	2	-	2	74	16	90
6	Farmers Seminar	2	214	48	262	8	-	8	222	48	270
7	Workshop	2	0	0	0	0	0	0	0	0	0
8	Group Meeting	8	78	25	103	12	10	24	90	35	125
9	Lectures delivered as resource persons	40	1000	100	1100	50	50	100	1050	150	1200
10	Newspaper coverage	80	-	-	-	-	-	-	-	-	-
11	Radio talks	6	-	-	-	-	-	-	-	-	-
12	TV talks	4	-	-	-	-	-	-	-	-	-
13	Popular articles	15	-	-	-	-	-	-	-	-	-
14	Extension Literature	10	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>197</b>	<b>3588</b>	<b>635</b>	<b>4223</b>	<b>202</b>	<b>75</b>	<b>279</b>	<b>3790</b>	<b>710</b>	<b>4500</b>
<b>Advisory Services</b>											
15	Scientific visit to farmers field	80	-	-	-	-	-	-	-	-	80
16	Farmers visit to KVK	450	-	-	-	-	-	-	-	-	450
17	Diagnostic visits	20	-	-	-	-	-	-	-	-	20
18	Exposure visits	2	-	-	-	-	-	-	-	-	2
19	Soil health Camp	2	-	-	-	-	-	-	-	-	2
20	Animal Health Camp	2	-	-	-	-	-	-	-	-	2
21	Soil Health Campaign	2	-	-	-	-	-	-	-	-	2

22	Self Help Group Conveners meetings	6	-	-	-	-	-	-	-	-	6
23	Celebration of imp.	1	-	-	-	-	-	-	-	-	1
24	Pre Kharif Workshop	1	-	-	-	-	-	-	-	-	1
25	Pre Rabi Workshop	1	-	-	-	-	-	-	-	-	1
<b>Total</b>		<b>567</b>	Mass								<b>567</b>
<b>Grand Total</b>		<b>764</b>									<b>5067</b>

## 8. Target for Production and supply of Technological products

### SEED MATERIALS

SN	Crop	Variety	Quantity (qtl.)
Cereal	Wheat	DBW- 187	250
Fodder	Sorghum	PC-6	-
<b>Total</b>			<b>250</b>

### PLANTING MATERIALS

Crop	Variety	Quantity (Nos.)	
FRUITS	Papaya	Pusa Nanha	1000
VEGETABLES	Tomato	Pusa Early Dwarf	5000
	Chilies	Pusa Sadabhar	2500
	Brinjal	Pusa Kranti	5000
	Cauliflower	Pearl white	5000
	Cabbage	Parwati	1000
ORNAMENTAL CROPS	Mari Gold	Pusa Narangi	2500
	Calendula	Spensar	1000
<b>Total</b>		<b>23500</b>	

### Proposed DFI Village doubling the farmers income – during 2023

Interventions	Observation parameters
<ol style="list-style-type: none"> <li>1. Intercropping (Cauliflower Var. Pusa hybrid – 2 with October sown sugarcane var. Co 0238 - 1:2 lines)</li> <li>2. Intercropping (Garlic Var. Yamuna safed with October sown sugarcane var. Co 0238 -1:5 lines)</li> <li>3. Intercropping (Marigold Var. Pusa Narangi with trench planted September sown sugarcane var. Co 0238 -1:3 lines)</li> <li>4. Intercropping (Cucumber Var. Pusa Sanyog with February planted sugarcane var. Co 0238 -4:1 lines) + Bee keeping</li> </ol>	<ol style="list-style-type: none"> <li>1.Main crop</li> <li>2.Yield(q/ha)</li> <li>3. Inter crop Yield(q/ha)</li> <li>4. Equivalent yield(q/ha)</li> <li>5.Cost of cultivation(Rs/ha)</li> <li>6.Gross Cost (Rs/ha)</li> <li>7.Net income(Rs/ha)</li> <li>8. B.C: Ratio</li> </ol>

**Bio-products**

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>Bio pesticides</b>				
1	Trichoderma	viride		100

**9. Literature to be Developed/Published**

- (E) **KVK News Letter** NA  
Date of start :
- (F) **Literature to be developed/published**

Item		Number of copies
Research papers	05	-
Technical reports	25	100
News letters	04	1000
Technical bulletins	06	200
Popular articles	08	-
Extension literature	10	10000
<b>TOTAL</b>	<b>58</b>	<b>11276</b>

**(G) Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			

**10. LINKAGES****Functional linkage with different organizations**

S.N.	Name of organization	Nature of linkage
1.	State Agriculture Deptt.	Participation in training and meeting at Division, district, block and village level. Participation in Exhibition, Gosthies and Kisan Melas at various levels. Participation in soil testing programmes.
2.	Fertilizer Agencies	Participation in training, meetings, Gosthies /Kisan diwas, Kisan Melas, soil testing and plantation programmes.
3.	Banks	Participation in training, meetings, Gosthies /Kisan diwas, Kisan Mela, soil testing and plantation programmes.
4.	Fisheries	Participation in training, meetings, Gosthies /Kisan diwas,
5.	State Animal Husbandry Department and BAIF	Participation in Animal Health care programmes & training, meetings, Gosthies
6.	Horticulture Department	Participation in training, meeting, Gosthies and field visits.
7.	IFFCO	Participation in Gosthies and demonstrations.



8.	KRIBHCO	Participation in Gosthies and demonstrations.
9.	NABARD	Participation in training, meeting and Gosthies
10	NGO;s	Participation in training, meeting and Gosthies

**11. Success stories/Case studies identified for development as a case. ( 5 by each KVK) -**

- (I) a. Brief introduction : Doubling income through intercropping of garlic with sugarcane  
b. Interventions : Planting of Garlic
- (II) a. Brief introduction : Doubling income through intercropping of Garden Pea with sugarcane  
b. Interventions : Variety of garden Pea and technical guidance.
- (III) a. Brief introduction : Innovation with natural farming  
b. Intervention : Variety and technical guidance

**12. Indicate the specific training need analysis tools/methodology followed for**

**Practicing Farmers**

- a) Exposure visits of trainees

**Rural Youth**

- a) Cultivation of high value vegetables under poly houses

**In-service personnel**

- a) Exposure visits of trainees

**Methodology for identifying OFTs/FLDs**

**For OFT:**

1. Field level observations
2. Farmer group discussions
3. PRA survey

**For FLD :**

- xxxi) Group discussions
- xxxii) Diagnostic survey
- xxxiii) Based on technical recommendation

**Field activities**

- i. Name of villages identified/adopted with block name (from which year) - 06
- ii. No. of farm families selected per village : 10
- iii. No. of survey/PRA to be conducted : 01
- iv. No. of technologies taken to the adopted villages: 10
- v. Name of the technologies found suitable by the farmers of the adopted villages:
  1. Promotion of improved variety mustard var. Giriraj
  2. Promotion of trench planting of sugarcane
  3. Use of Sulphour @ 40 kg/ha. In mustard

4. Application of Zinc sulphate @ 25 kg/ha followed by a spray of ZnSo<sub>4</sub> @ 0.5 % at disease appearance in field.
5. Introduction of high yielding variety of basmati rice.
6. Soil solarisation for raising healthy paddy nursery
7. Promotion of improved late sown variety HD 3059, after sugarcane harvesting
8. Introduction of high yielding timely sown variety HD-2967
9. Introduction of high yielding timely sown variety HD-3086
10. Introduction of high yielding timely sown variety DBW-17
11. Rejuvenation of old orchards
12. Canopy management of mango orchard
13. Adoption of IPM technologies.
14. Adoption of Machan system in cucurbitaceous crops.
15. Value addition in agricultural products
16. Post harvest management.
17. Intercropping in mango orchards.
18. Adoption of protected Agriculture.
19. Diversification in Agriculture.

vi. Impact (production, income, employment, area/technological– horizontal/vertical):

vii. Constraints if any in the continued application of these improved technologies:

1. Quality of recommended inputs involved in the technologies either unavailable or costly.
2. Damage by wild animals.

## 12. Activities of Soil and Water Testing Laboratory

**Status of establishment of Lab:**

Year of establishment : 2007

**List of equipments purchase with amount**

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1	Spectrophotometer	01	106500
2	Flame Photometer	01	33430
3	pH meter	01	10350
4	Conductivity meter	01	8750
5	Physical balance	01	10900
6	Single pan balance electronic	01	87000
7	Water distillation Unit	01	85000
8	Kjeldahl Digestion apparatus	02	13400
9	Kjeldahl distillation apparatus	02	30000
10	Mechanical shaker	01	52700

11	Refrigerator with stabilizer	01	12000
12	Lab hot air oven	01	14500
13	Heating plate	01	8200
14	Grinder	01	23252
15	Microscope- Olympus	01	4600
16	Mridaparikshak Kit	02	16100.00
17	Mridaparikshak refill	03	42525.00

### 13. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	1200	600	25	180000

Annexure-1

## Training Programme

### i) Farmers & Farm women (On Campus)

Date	Client	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
07 Feb, 2023	PF	Intercropping with autumn planting cane	1	17	-	17	3	-	3	20
08 May, 2023	PF	Management of crop residue	1	17	-	17	3	-	3	20
07 Aug. 2023	PF	Production technology for major oil seed crops	1	18	-	18	2	-	2	20
06 Dec 2023	PF	Integrated weed management in wheat	1	18	-	18	2	-	2	20
<b>Horticulture</b>										
18 March, 2023	PF	Method of sowing of ginger	1	17	-	17	3	-	3	20
20 June, 2023	PF	Planning and layout of mango/ guava orchard	1	17	-	17	3	-	3	20
17 August, 2023	PF	Nursery raising of cauliflower	1	17	-	17	3	-	3	20
17 Sep., 2023	PF	Nutrient management in mango	1	17	-	17	3	-	3	20
<b>Soil Health</b>										
02 Jan., 2023	PF	Importance of Natural Farming	1	17	-	17	3	-	3	20
02 August, 2023	PF	Nano urea application through drone	1	17	-	17	3	-	3	20
03 Oct, 2023	PF	Method of soil sample	1	17	-	17	3	-	3	20
02 Nov.,	PF	Crop residue management for	1	17	-	17	3	-	3	20

2023		improving the soil health.								
<b>Home Sc.</b>										
20 Feb., 2023	PF	Importance of Poshan Thali	1	-	17	17	-	3	3	20
20 March, 2023		Importance of millets in diet and their nutritional importance	1	-	17	17	-	3	3	20
22 May, 2023	PF	Balance diet for children to improve health	1	-	17	17	-	3	3	20
20 July, 2023	PF	Food adulteration & its testing at house hold level	1	-	17	17	-	3	3	20
23 Oct., 2023	PF	Household food security by nutrition gardening through organic farming	1	-	17	17	-	3	3	20
23 Nov., 2023	PF	Introduction of gender friendly small tools and implements for the enhancement of work efficiency for farm women	1	-	17	17	-	3	3	20
<b>Plant protection</b>										
21 Feb.,2023	PF	White fly management in summer pulses	1	17	-	17	3	-	3	20
22 Feb., 2023	PF	Dasparni extract: Preparation and storage method	1	17	-	17	3	-	3	20
23 Feb., 2023	PF	Management of bhindi fruit borer	1	17	-	17	3	-	3	20
19 June, 2023	PF	Management of stem borer in rice through bio agent	1	17	-	17	3	-	3	20
22 July, 2023	PF	Preparation of Neemastra and its application in crop pest management	1	17	-	17	3	-	3	20
20 August, 2023	PF	Management of termite and white grub through bio agent	1	17	-	17	3	-	3	20
26 Nov., 2023	PF	Fruit fly management in mango orchards	1	17	-	17	3	-	3	20
<b>Agric. Engg.</b>										
25 Feb, 2023	PF	Application of automatic sugarcane planter	1	17	-	17	3	-	3	20
29 May, 2023	PF	Use of windrower reaper for harvesting wheat crop	1	17	-	17	3	-	3	20
10 August, 2023	PF	Application of drip irrigation of Sugarcane	1	17	-	17	3	-	3	20
12 November, 2023	PF	Use of seeddrill for wheat crop	1	17	-	17	3	-	3	20

**i) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
10 Jan., 2023	PF	Field operation of ratoon/sugarcane crops	1	17	-	17	3	-	3	20
12 Feb., 2023	PF	Ratoon of sugarcane management	1	15	2	17	2	1	3	20
08 March, 2023	PF	Production technology of spring cane	1	15	2	17	1	2	3	20

07 April, 2023	PF	Intercropping with spring cane	1	17	-	17	3	-	3	20
11 May, 2023	PF	Drought contingency plan for kharif crops	1	17	-	17	3	-	3	20
08 June, 2023	PF	Production technology of Basmati Rice	1	15	-	15	3	2	5	20
09 July, 2023	PF	Water management of Rice-Wheat System	1	15	2	17	2	1	3	20
08 Aug., 2023	PF	Irrigation management of mustard	1	15	2	17	2	1	3	20
07 Sept., 2023	PF	Introduction of fortified variety of wheat.	1	15	2	17	2	1	3	20
10 Oct., 2023	PF	Intercropping with autumn planting cane	1	17	-	17	3	-	3	20
07 Nov., 2023	PF	Introduction of timely sown wheat varieties.	1	15	2	17	2	1	3	20
10 Dec., 2023	PF	Introduction of late sown wheat varieties.	1	15	2	17	2	1	3	20

#### Horticulture

16 Jan., 2023	PF	Weed management in onion crop	1	17	-	17	3	-	3	20
19 Jan., 2023	PF	Sowing /transplanting of cucurbitaceous crops	1	17	-	17	3	-	3	20
15 Feb., 2023	PF	Cultivation of okra on ridges.	1	17	-	17	3	-	3	20
16 May, 2023	PF	Preparation of nursery for early Cauliflower.	1	7	3	10	3	4	7	20
19 June, 2023	PF	Sowing technique of summer radish	1	17	-	17	3	-	3	20
22 June 2023	PF	Sowing techniques of banana	1	17	-	17	3	-	3	20
16 July, 2023	PF	Fertilizer management in marigold crop.	1	17	-	17	3	-	3	20
13 Aug., 2023	PF	Preparation of nursery in tomato crop	1	7	3	10	3	4	7	20
25 Aug., 2023	PF	Fertilizer management in mango orchard	1	17	-	17	3	-	3	20
19 Sep., 2023	PF	Nursery raising of marigold	1	17	-	17	3	-	3	20
25 Sep., 2023	PF	Sowing techniques in gladiolus flower crop	1	17	-	17	3	-	3	20
15 Oct., 2023	PF	Sowing techniques of garden pea.	1	15	-	15	5	-	5	20
17 Nov., 2023	PF	Garlic plantation on ridges	1	17	-	17	3	-	3	20
18 Dec., 2023	PF	Rejuvenation of mango orchards	1	17	-	17	3	-	3	20

#### Soil health

01 Jan, 2023	PF	Role of soil health cards in natural farming	1	17	-	17	3	-	3	20
05 Feb., 2023	PF	Crop Residue Management	1	17	-	17	3	-	3	20
13 March., 2023	PF	Importance of bio fertilizer in pulse crops	1	17	-	17	3	-	3	20

05 April, 2023	PF	Preparation of Beejamrit	1	17	-	17	3	-	3	20
04 May., 2023	PF	Preparation of Ghan Jeevamrit	1	17	-	17	3	-	3	20
05 June., 2023	PF	Preparation of Jeevamrit	1	17	-	17	3	-	3	20
04 July., 2023	PF	Importance of Potash fertilizer	1	17	-	17	3	-	3	20
06 Aug , 2023	PF	Importance of nano urea fertilizer	1	17	-	17	3	-	3	20
04 Sept, 2023	PF	The experiment of nano urea	1	17	-	17	3	-	3	20
04 Oct., 2023	PF	Importance of sulphur in oilseeds crops	1	17	-	17	3	-	3	20
06 Nov., 2023	PF	SSNM of Wheat Crop	1	17	-	17	3	-	3	20
06 Dec, 2023	PF	Spray nano urea through drone	1	17	-	17	3	-	3	20
<b>Home Sci.</b>										
21 Jan., 2023	PF	Minimization of nutrient loss during cooking	1	-	17	17	-	3	3	20
23 Feb., 2023	PF	Different work simplification techniques at household level	1	-	17	17	-	3	3	20
01 March, 2023	PF	Creation of SHGs and its benefit to farm women for income generation.	1	-	17	17	-	3	3	20
20 April, 2023	PF	Importance of Poshan Thali	1	-	17	17	-	3	3	20
28 May, 2023	PF	Role of women in agricultural	1	-	17	17	-	3	3	20
17 June, 2023	PF	Selection, grading and selling of food items.	1	-	17	17	-	3	3	20
02 July, 2023	PF	Household food security by nutrition gardening through organic farming	1	-	17	17	-	3	3	20
23 July, 2023	PF	Importance of millets in diet & their nutritional importance	1	-	17	17	-	3	3	20
20 Aug., 2023	PF	To Promote bio-fortified varieties in kitchen garden & their nutritional importance	1	-	17	17	-	3	3	20
02 Sept., 2023	PF	Reduction of time and drudgery by the use of improved agricultural implements	1	-	17	17	-	3	3	20
26 Sept., 2023	PF	Income generation for women through different activities in field of agriculture based	1	-	17	17	-	3	3	20
29 Oct., 2023	PF	To impart knowledge of rural women about care of milching animals	1	-	17	17	-	3	3	20
20 Nov., 2023	PF	To aware the farm women about the importance the plants in our life	1	-	17	17	-	3	3	20
01 Dec., 2023	PF	To impart the knowledge for rural women related to roof top kitchen gardening.	1	-	17	17	-	3	3	20

16 Dec., 2023	PF	To promote food fortification through locally available grains	1	-	17	17	-	3	3	20
<b>Plant Protection</b>										
06 Jan., 2023	PF	Preparation of Agniyastra and its application in crop pest management	1	17	-	17	3	-	3	20
06 Jan., 2023	PF	Management of top borer in sugarcane	1	17	-	17	3	-	3	20
07 Jan., 2023	PF	Management of insect pest in mustard	1	17	-	17	3	-	3	20
03 Feb., 2022	PF	Management of late blight of potato	1	17	-	17	3	-	3	20
08 March., 2023	PF	Insect pest diseases management in natural/ organic farming	1	17	-	17	3	-	3	20
02 April, 2023	PF	Management of insect Pest of urd bean	1	17	-	17	3	-	3	20
02 May , 2023	PF	Preparation of Neemastra and its application in crop pest management	1	17	-	17	3	-	3	20
04 April, 2023	PF	Application of bio agent in sugarcane crop	1	17	-	17	3	-	3	20
05 April, 2023	PF	Management of stem borer in sugarcane through trichocard	1	17	-	17	3	-	3	20
24 May, 2023	PF	Management of pokka bowing diseases in sugarcane	1	17	-	17	3	-	3	20
26 May, 2023	PF	Management of stem borer in sugarcane through trichocard	1	17	-	17	3	-	3	20
01 June ., 2023	PF	Dasparni extract: preparation and storage method	1	17	-	17	3	-	3	20
25 June, 2023	PF	Bakane disease of rice nursery and their management	1	17	-	17	3	-	3	20
24 July, 2023	PF	Role of pheromone traps in managing lepidopterous pest in rice crops	1	17	-	17	3	-	3	20
21 Aug., 2023	PF	Management of DBM in cole crop	1	17	-	17	3	-	3	20
24 Sept., 2023	PF	Management of shoot & fruit borer in brinjal.	1	17	-	17	3	-	3	20
01 Oct, 2023	PF	Brahmastra – Preparation, method and use in crop pest management	1	17	-	17	3	-	3	20
20 Oct., 2023	PF	Alternaria leaf spot diseases management in oilseeds crops	1	17	-	17	3	-	3	20
19 Nov., 2023	PF	Role of seed treatment in rabi crops	1	17	-	17	3	-	3	20
19 Dec., 2023	PF	Management of mealy bug in mango.	1	17	-	17	3	-	3	20
<b>Agric. Engg.</b>										
21 Jan. 2023	PF	Maintenance of tractor	1	17	-	17	3	-	3	20
10 Feb. 2022	PF	Drip irrigation system in sugarcane	1	17	-	17	3	-	3	20
03 March, 2022	PF	Maintenance of seed drill	1	17	-	17	3	-	3	20

09 April 2022	PF	Operation and maintenance of paddy trans planter	1	17	-	17	3	-	3	20
21 May 2022	PF	Operation of laser leveler	1	17	-	17	3	-	3	20
12 June 2022	PF	Operation and maintenance of multi crop planter	1	17	-	17	3	-	3	20
23 July 2022	PF	Operation and maintenance of mulcher	1	17	-	17	3	-	3	20
19 August 2022	PF	Operation and maintenance of M.B.Plough	1	17	-	17	3	-	3	20
03 Sept. 2022	PF	Operation and maintenance of sugarcane planter	1	17	-	17	3	-	3	20
20 Oct. 2022	PF	Operation and maintenance of happy seeder	1	17	-	17	3	-	3	20
5 Nov. 2022	PF	Maintenance of Harrow and tiller	1	17	-	17	3	-	3	20
18 Dec. 2022	PF	Maintenance of thresher	1	17	-	17	3	-	3	20

## ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G. Total
					M	F	T	M	F	T	
<b>Crop Production</b>											
Paddy	Seed Production	Important steps involved in the seed production of paddy	May	5	5	2	7	2	1	3	10
Wheat	Seed Production	Important steps involved in the seed production of wheat	Sep.	5	5	2	7	2	1	3	10
Vermi compost	Vermi Compost Production	Role of vermin compost of in organic matter	Feb	5	5	2	7	2	1	3	10
<b>Horticulture</b>											
Cucumber , capsicum and tomato	Nursery management	Nursery management of cucumber and capsicum cultivation and tomato under polyhouse.	July	5	5	2	7	2	1	3	10
Rose & gerbera	Protected Cultivation	Rose and Gerbera production under poly houses	Nov	5	5	2	7	2	1	3	10
<b>Soil Science</b>											
Soil health card	Soil Health Management	Natural farming	June	5	5	2	7	2	1	3	10
Vermi compost	Soil Health Management	Production technology of vermi compost	Feb	5	5	2	7	2	1	3	10



<b>Home Science</b>											
Natural dyes	Women empowerment	Making natural dyes for fabric through plants and vegetables	April	5	-	7	7	-	3	3	10
Food fortification	Value addition	Food fortification through millets by making laddub Barfi	Oct	5	-	7	7	-	3	3	10
<b>Plant protection</b>											
Mushroom	Skill Development	Mushroom production	Sept.	5	5	2	7	2	1	3	10
Honey production	Skill Development	Bee keeping,	April	5	5	2	7	2	1	3	10
<b>Agri. Engg.</b>											
Repair and maintenance	Skill Development	Repair and maintenance of diesel engine	August	5	5	2	7	2	1	3	10
Repair and maintenance	Skill Development	Repair and maintenance of ploughing implements	Nov.	5	5	2	7	2	1	3	10

### Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
12 <sup>th</sup> March, 2023	Ext.fun	Bio farming for sustainable agriculture production	1	12	-	12	3	-	3	15
10 <sup>th</sup> April 2023		Crop diversification improves water productivity through Resource Conservation Technology	1	12	-	12	3	-	3	15
19 <sup>th</sup> Sept., 2023		Irrigation management of Wheat	1	12	-	12	3	-	3	15
16 <sup>th</sup> Nov., 2023		Introduction of released wheat varieties for NWPZ	1	12	-	12	3	-	3	15
<b>Horticulture</b>										
6 <sup>th</sup> Feb., 2023	Ext.fun	Intercropping vegetable with spring sugarcane	1	12	-	12	3	-	3	15
6 <sup>th</sup> June, 2023		Selection of plant and planting technique of Guava	1	12	-	12	3	-	3	15
8 <sup>th</sup> Aug., 2023		INM in commercial fruits	1	12	-	12	3	-	3	15
16 <sup>th</sup> Dec., 2023		Nursery raising of cucurbits	1	12	-	12	3	-	3	15
<b>Soil Science</b>										
20 <sup>th</sup> Feb., 2023	Ext.fun	Importance of Natural Farming	1	12	-	12	3	-	3	15
16 <sup>th</sup> May, 2023		Important of Nano Fertilizer	1	12	-	12	3	-	3	15

4 <sup>th</sup> July, 2023		Preparation of Ghan Jeevamrit	1	12	-	12	3	-	3	15
19 <sup>th</sup> Dec., 2023		Residue management for improving the soil health and safe environment	1	12	-	12	3	-	3	15
<b>Home Science</b>										
15 <sup>th</sup> Feb., 2023	Ext.fun	Importance of immunization and its schedule	1	-	12	12	-	3	3	15
11 <sup>th</sup> April, 2023		To Promote food fortification through locally available grains	1	-	12	12	-	3	3	15
3 <sup>rd</sup> August, 2023		Importance of millets in diet & their nutritional importance	1	-	12	12	-	3	3	15
12 <sup>th</sup> Oct., 2023		Household food security by nutrition gardening through organic farming	1	-	12	12	-	3	3	15
<b>Plant Protection</b>										
18 Jan., 2023	Ext.fun	Use and importance of Bio-pesticides in pest management	1	14	3	17	2	1	3	20
18 Feb., 2023		Preparation of Agniyastra and its application in crop pest management	1	14	3	17	2	1	3	20
02 March, 2023		Plant protection measures in natural/organic farming	1	14	3	17	2	1	3	20
02 April, 2023		Preparation of Neemastra and its application in crop pest management	1	14	3	17	2	1	3	20
09 May, 2023		Application of bio-rational pesticides	1	14	3	17	2	1	3	20
09 June 2023		Dasparni extract: Preparation and storage method	1	14	3	17	2	1	3	20
06 August, 2023		Safe handling and use of pesticides	1	14	3	17	2	1	3	20
06 October, 2023		Brahmastra – Preparation, method and use in crop pest management	1	14	3	17	2	1	3	20
19 <sup>st</sup> Aug., 2023		Trichocard in insect- pest management	1	14	3	17	2	1	3	20
16 <sup>th</sup> November., 2023		Use of Microbial pesticides in agricultural	1	14	3	17	2	1	3	20
<b>Agri. Engg.</b>										
15 <sup>th</sup> Feb. 2023		Improved machinery for sugarcane crop	1	12	-	12	3	-	3	15
12 <sup>th</sup> June., 2023		Harvesting machineries for the wheat crop	1	12	-	12	3	-	3	15
26 <sup>th</sup> Aug., 2022		Water saving technology in sugarcane crop	1	12	-	12	3	-	3	15
27 <sup>th</sup> Oct. 2023		Latest machinery for planting and seeding in for rabi crop	1	12	-	12	3	-	3	15

iv) Sponsored programme

Discipline	Sponsoring agency	Beneficiaries	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
<b>c) Sponsored training programme</b>											
Crop Production	Deptt. of Agriculture	PF	Oil seeds production techniques	1	17	-	17	3	-	3	20
	Deptt. of Agriculture	PF	Technique rising of paddy nursery	1	17	-	17	3	-	3	20
	Deptt. of Agriculture	PF	Pulses production technology	1	17	-	17	3	-	3	20
	Deptt. of Agriculture	PF	Urd, Moong & Mustard Intercropping with sugarcane	1	17	-	17	3	-	3	20
	Deptt. of Agriculture	PF	Weed management in wheat under rice-wheat system	1	17	-	17	3	-	3	20
Plant Protection	Deptt. of Agricultural	PF	Control of fruit & shoot borer in vegetables	1	17	-	17	3	-	3	20
	Deptt. of Plant Prot.	PF	Control of Bacterial blight & Blast in rice	1	17	-	17	3	-	3	20
Soil Science	Deptt. of Agricultural	PF	Introduction and use of Bio-fertilizer	1	17	-	17	3	-	3	20
	Deptt. of Agriculture	PF	Soil Testing Abhiyan	1	17	-	17	3	-	3	20
Hort.	Deptt. of Horticulture	PF	Garlic plantation of ridges	1	17	-	17	3	-	3	20
	Deptt. of Horticulture	PF	Rejuvenation of old mango orchards	1	17	-	17	3	-	3	20
Agril.Engg.	Department of Agril & Horticulture	PF	Crop residue management & Jal Shakti Programme	20	340	-	340	60	-	60	400

## NARI Action Plan 2023

### OFT-1

#### Feeding of SOY n Pro mixture

Particulars	Details
Title of OFT	Assessment of SOY n PRO mixture on the nutritional health of children suffering from malnutrition.
Problem diagnosed	Protein energy malnutrition due to unscientifically prepared supplementary foods for children
Thematic Area	Design and development of low cost and high nutrient efficiency diet
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice (Milk, ghee, cereals) T <sub>2</sub> - Preparation of SOY n PRO mixture (25-30gm/twice a day (in children)/(50-60gm/twice a day(in PW))
Source of Technology	CIAE Bhopal
Characteristics of Technology	High in Protein, energy and vitamins
No of Trail	05
Critical Input	SOY n PRO mixture
Performance Indicator/Parameter	Technical observations Anthropometric measurements Estimation of nutritional value Farmer Reaction and Feedback
Expenditure	(Aprox. Exp. Rs. 2500/-)
Name of Scientist	Smt. Veena Yadav, Assisstant Professor (Home Science)

### OFT-2

#### Supplementation of fortified wheat flour

Particulars	Details
Title of OFT	Assessment of the effective supplementation of fortified wheat flour for improvement of nutritional status of farm women
Problem diagnosed	Nutrient inadequacy
Thematic Area	Nutritional Security
Details of technologies selected for assessment	T <sub>1</sub> - Farmer practice – Wheat flour only ( Protein 10-11 %, Iron 1.0-1.2 mg/100 gm T <sub>2</sub> - Fortified - wheat flour (75 %) + gram Flour (20%) + Barley (5 %) for 180 days
Source of Technology	NIN, Hyderabad

Characteristics of Technology	1. High in Protein, energy and Iron 2. High Palatability 3. Availability in all season
No of Trail	05
Critical Input	Wheat, + Gram Flour, + Barley flour
Performance Indicator/Parameter	Nutritive value Hemoglobin Level Adoption & Technology
Expenditure	(Aprox. Exp. Rs. 4000/-)
Name of Scientist	Smt. Veena Yadav, Assisstant Professor (Home Science)

## DEMONSTRATIONS

### Details of FLDs to be organized during 2023

Thematic Area	Technology for demonstration		Season / Year	Area (ha)	No. of Demo.
Value addition	Value addition of pulses and vegetable BADIS for gradational income	Pulses and vegetable,+ spices	Zaid 2023	-	10
Nutrition Security	Production of organic vegetables in Kitchen Garden	Vegetable seeds	Zaid 2023	0.15	15
	Production of organic vegetables in Kitchen Garden	Vegetables seeds	Kharif-2023	0.15	15
	Production of organic vegetables in Kitchen Garden	Vegetable seeds	Rabi 2023	0.15	15

## TRAINING PROGRAMME

### Farmers & Farm women

Title of the training programme
Importance of Poshan Thali
Importance of millets in diet and their nutritional importance
Balance diet for children to improve health
Food adulteration & its testing at house hold level
Household food security by nutrition gardening through organic farming
To Promote bio-fortified varieties in kitchen garden & their nutritional importance
Importance of millets in diet & their nutritional importance
Household food security by nutrition gardening through organic farming
To aware the farm women about the importance the plants in our life
To promote food fortification through locally available grains

### **Vocational training programmes for Rural Youth**

Food fortification through millets by making laduo, Barfi
Processing and value addition of spices

### **Training programme for extension functionaries**

To Promote food fortification through locally available grains
Importance of millets in diet & their nutritional importance
Household food security by nutrition gardening through organic farming
Importance of Poshan Thali



**ACTION PLAN**  
*January – December, 2023*



**KRISHI VIGYAN  
KENDRA  
MORADABAD-I**

# ACTION PLAN

## (January, 2023 to December, 2023)

### 1. GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		e-mail	Website
	Office	Fax		
Krishi Vigyan Kendra Rustam Nagar (Bilari) Moradabad (U.P.) - 202411	-	-	moradabadkvk@gmail.com	www.moradabad.kvk4.in

#### 1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E-mail	Website
	Office	FAX		
S.V.P.U. & T. Meerut (U.P.) - 250110	--	--	deesvpuat2014@gmail.com	www.svbpm Meerut.ac.in

1.2.b. Status of KVK website: Yes

1.2. c. No. of Visitors (Hits) to your KVK website (as on today) : 298

1.2.d. Status of ICT Lab at your KVK: Establish









#### 1.3. Name of the Sr. Scientist & Head with phone & mobile No





Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. Ram Karan Singh	-	9412809032	moradabadkvk@gmail.com

1.4. Year of sanction: 2004 (F.No.2-11/99-AE-11(PT) dated 13.12.2004



### 1.5. Staff Position (as on 5<sup>st</sup> Sep. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay scale (Rs.)	Level & SN	Present Basic	Date of Joining	Permanent / Temporary	Category	Mobile No.	Email id	Please attach recent photograph
13.	Sr. Scientist & Head	Dr. R.K. Singh	Prof. & Head	Agricultural Extension	37400-67400	14(12)	199600	14-10-2010	Permanent	OBC	+91-9412809032	<a href="mailto:moradabadkvk@gmail.com">moradabadkvk@gmail.com</a>	
14.	Subject Matter Specialist	Dr. Mohan Singh	SMS/ Asst. Prof.	Soil Science	15600-39100	12(9)	101100	25-06-2008	Permanent	OBC	+91-9457802593	<a href="mailto:drmsinghkvk@gmail.com">drmsinghkvk@gmail.com</a>	
15.	Subject Matter Specialist	Dr. Manoj Kumar	SMS/ Asst. Prof.	<b>Animal Science</b>	15600-39100	12(10)	104100		Permanent	OBC	+91-9411448461	dr.manojktomar@gmail.com	
16.	Subject Matter Specialist	Sh. Lalit Kumar	SMS	Agronomy	15600-39100	10(1)	56100	01-07-2022	Permanent	OBC	+91-9027033722	way2lalitsinghgmail.com	
17.	Subject Matter Specialist	Dr. Vishvendra	SMS	Plant Protection	15600-39100	10(1)	56100	01-07-2022	Permanent	OBC	+91-9634464030	<a href="mailto:vishvendrapanwar92@gmail.com">vishvendrapanwar92@gmail.com</a>	
18.	Subject Matter Specialist	Dr. Neha Singh	SMS	Home Science	15600-39100	10(1)	56100	13-07-2022	Permanent	OBC	+91-8290115598	<a href="mailto:neha8293@rediffmail.com">neha8293@rediffmail.com</a>	
19.	Subject Matter Specialist	Dr. Shiv Shanakra Verma	SMS	Horticulture	15600-39100	10(1)	56100	25-08-2022	Permanent	OBC	+91-8299352094	vermasshorti@gmail.com	
20.	Farm Manager	Dr. Ram Ashray Yadav	Farm Manager	Plant Breeding	9300-34800	07(8)	55200	18-08-2007	Permanent	OBC	+91-9412365795	ramashrayyadav@gmail.com	

21.	Accountant / Superintendent	Sri. Sanjay Kumar Sharma	Accountant / Superintendent	Accounts	9300-34800	08(15)	72100	18-09-2000	Permanent	BC	+91-9412650468	<a href="mailto:sksharmakvk@gmail.com">sksharmakvk@gmail.com</a>	
22.	Stenographer / computer operator	Sri. Ajay Tomar	Stenographer / computer operator		5200-20200	05(14)	42800	30-07-2007	Permanent	Others	+91-8171960800	<a href="mailto:ajaytomarmbd@gmail.com">ajaytomarmbd@gmail.com</a>	
23.	Driver	Amrish Kumar Sharma	Driver	Driver	5200-20200	05(17)	46800	01-07-1998	Permanent	Gen.	+91-9997889985		
24.	Supporting staff	Sri Sarvesh Kumar	Supporting staff	-	2550-3290	02(14)	29300	27-02-2008	Permanent	OBC	+91-9548115024		

**1.6. Total land with KVK (in ha): 17.5**

S. No.	Item	Area (ha)
1	Under Buildings, ,Road, Channels and boundary etc.	3.0984
2.	Under Demonstration Units	0.8016
3.	Under Crops	11.500
4.	Orchard/Agro-forestry	2.1000
5.	Others (specify)	-

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage						Needs renovation
			Complete			Incomplete			
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR		510	43.65	2006		Completed	
2.	Farmers Hostel	ICAR		300	22.92	2006		-do-	
3.	Staff Quarters (6)	ICAR		431	26.72	2006		-do-	
4.	Demonstration Units (2)	ICAR		160	11.05	2006		-do-	
5	Fencing	ICAR		2000 R/M	38.43	2006		-do-	
6	Rain Water harvesting system	-	-	-				Not available	
7	Threshing floor	ICAR		300	2.33	2006		Completed	
8	Farm godown	ICAR		60	3.63	2006		-do-	
9	Irrigation Channel	ICAR		1000 M	8.26			-do-	

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.) Lac	Total kms. Run	Present status
Tractor	2021	6.56	280 hours	Working condition
Bolero Jeep	2007	4.59	182784	Condemn
Motor cycle	2008	0.52	46520	Working condition

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
L.C.D. Projector	2007	57000.00	Good condition
U.P.S.	2007	TRF from H.Q.	Condemn

Solar (Lalten)	2007	4040.00	Not working
Electric Padestral Fan	2005	2410.00	Good condition
Padestral Fan	2005	1725.00	Good condition
11 cultivator	2005	12265.00	Good condition
14 Tawa Harrow	2005	24540.00	Good condition
Leveller	2005	6870.00	Good condition
Nepseeke Spray (Plastic)	2005	1428.00	Good condition
Foot Sprayer	2005	1362.00	Good condition
Disk Bund Farmer	2006	8250.00	Good condition
Seed Drill	2006	23415.00	Good condition
Hand Rotary Fan	2006	1161.00	Good condition
Trailer for Tractor	2006	64524.00	Good condition
Hand Vinoi Fan	2006	1450.00	Good condition
S.D. Memory cord of LCD with Recorder	2007	4000.00	Good condition
Solar domestic light (Model IV)	2008	25775	Good condition

#### 1.8. A). Details of SAC meetings to be conducted in the year

Sl.No.	Date
1. Scientific Advisory Committee	13 November, 2023

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	<b>Major crops</b> – Paddy, wheat, Mustard, Sugarcane, Mentha, Lentil, Potato.
2.	<b>Crop rotation</b> – Rice- Sugarcane, Rice- Wheat, Urd-Mustard-Mentha, Jawar-Mustard- Mentha.
3.	Agriculture + Hort. + Livestock
4.	Agri. + Livestock
5.	Landless + Livestock

### 2.2 Description of agro ecological situations (based on soil and topography)

S. No.	AES	Characteristics of A.E.S.	Major commodities	Farming system	Block
1	I- Central western plain zone of the district	-Loam and clay loam with high fertility - medium rainfall	Rice, wheat, mentha, sugarcane, chili, cauliflower, cabbage, mango, guava, buffalo, cows	Paddy, wheat, sugarcane+ Poplar+ A.H. (Cow, buffalo)	Thakurdwara, Dilari, Moradabad, Bhagatpur Tanda and Chhajlait
2	II. Central western Plain zone/ Central	-Sandy loam to loam soil of medium fertility	Rice, wheat, mentha, sugarcane, mustard as well as	Paddy, wheat, potato, sugarcane,	Bilari

	east southern region of the district	- medium rainfall	vegetables (pea, cucumber, chili, tomato, potato) and mango fruit, buffalo, cows	mentha, mustard based systems + horticulture + A.H.	
3	III Central western plain zone/ central region of the district	-Sandy loam to loam and clay soil of medium fertility - medium rainfall	Rice, wheat, mentha, sugarcane, potato, guava, mango, poplar etc.	Paddy, wheat, sugarcane, mentha based systems + poplar + A.H.+ Hort.	Munda pandey & Kundarki

## 2.5 Soil types

Sl. No	Soil type	Characteristics	Area (ha )
1	Clay loam	Clay loam	81930
2	Sandy soil	Sandy soil	25537
3	Sandy loam	Sandy loam	84518
4	Loam	Loam	126433
Total			317919

## 2.4. Area, Production and Productivity of major crops cultivated in the district (2020-21)

S. No	Crop	Area (ha)	Production (MT)	Productivity (q /ha)
<b>A</b>	<b>FIELD CROPS INCLUDING OIL SEEDS AND PULSES</b>			
1.	Wheat	121959	528204	43.31
2.	Lentil	688	715	10.36
3.	Mustard /Torla	2436	3342	13.72
4.	Paddy (Rice)	98140	316011	32.20
5.	Bajra	3390	6356	18.75
6.	Urd	3928	4580	11.66
7.	Sugarcane	76557	5937761	775.36

## 2.5 Weather data (rainfall) Dist. Moradabad

S. No.	Month	2022
1	Jan	85.0
2	Feb	28.3
3	March	0.00
4	April	0.00
5	May	65.7
6	June	45.1
7	July	80.0
8	Aug	73.00
9	Sept.	-
10	Oct.	-
11	Nov.	-
12	Dec.	-
	Total rainfall	377.1
	Average rainfall	47.13

## 2.7 Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	11824	Data not available	Data not available
<i>Indigenous</i>	49989		
<b>Buffalo</b>	327097		
<b>Cow</b>	50277		
<b>Sheep</b>			
<i>Crossbred</i>	220		
<i>Indigenous</i>	5667		
<b>Goats</b>	168248		
<b>Pigs</b>	-		
<i>Crossbred</i>	3165		
<i>Indigenous</i>	27159		
<b>Rabbits</b>	-		
<b>Poultry</b>	143957		
Hens	-		
<i>Desi</i>	-		
<i>Improved</i>	-		
Ducks	-		
Turkey and others	-		
Fish	172	5051	29.36

## 2.7 Details of operation area/villages

S. No.	Taluk/Village	Name of block	Major crops & enterprises	Major problem identified	Identified thrust area
1	Fattehpur Natha	Bilari	Paddy, Wheat, Sugarcane Mentha, Mustard, Poplar, Dairy	Low Productivity of paddy, wheat, mustard, urd etc.  The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely.	Diversification in agriculture Lack of high yielding varieties.  Less availability of plant protection measures.
2	Sihari Ladda	Bilari	Paddy, Wheat, Sugarcane Mentha, Mustard, Dairy, Poplar,Chilli, Onion, Gartic, Cucurbits.	Lack of knowledge of improved varieties of different crops. - Pest problems - Lack of knowledge of inter cropping - Crop management & nutrient management. - Disease & insect control of cereals and vegetable crops. - Poor milk	- Diversification in agriculture. - Use of improved varieties. - Inter cropping technique. - Crop management. - Weed control - Unawareness of diseases and

				production and infertility in animals	insect control.
3	Bachhal	Kundarki	Paddy, Wheat, Sugarcane, Mustard and Dairy	<ul style="list-style-type: none"> <li>-Farmer faces severe infestation of top borer and pokka boing in Sugarcane crop, Stem borer and different diseases in Paddy crop.</li> <li>- Low milk production and sterility problem in animals especially in catels and lack of awareness about good bread of animals and artificial insemination.</li> <li>- Lack of awareness regarding balance use of fertilizer.</li> <li>- Need soil testing.</li> <li>- Lack of knowledge about improved varieties of different crops.</li> </ul>	<ul style="list-style-type: none"> <li>- Give knowledge about suitable insecticide-pesticide regarding concern insect-pests.</li> <li>- Appropriate and balance use of fertilizer.</li> <li>- Awareness about soil testing.</li> <li>- Aware about good breed of animals.</li> </ul>
4	Ronda	Munda Pandey	Paddy, Wheat, Sugarcane, Mustard and Dairy	<ul style="list-style-type: none"> <li>-Farmer faces severe infestation of top borer and pokka boing in Sugarcane crop, Stem borer and different diseases in Paddy crop.</li> <li>-Farmer faces severe infestation of top borer and pokka boing in Sugarcane crop, Stem borer and different diseases in Paddy crop.</li> <li>-Farmer faces severe infestation of top borer and pokka boing in Sugarcane crop, Stem borer and different diseases in Paddy crop.</li> </ul>	<ul style="list-style-type: none"> <li>- Appropriate and balance use of fertilizer.</li> <li>- Awareness about soil testing.</li> <li>- Aware about good breed of animals.</li> <li>- Aware the farmers clean milk production.</li> <li>- Give knowledge about suitable insecticide-pesticide regarding concern insect-pests.</li> </ul>
5	Sonakpur	Bilari	Paddy, Wheat, Sugarcane,	<ul style="list-style-type: none"> <li>-Farmer faces severe infestation of top borer and pokka boing in Sugarcane crop,</li> </ul>	<ul style="list-style-type: none"> <li>- Aware about good breed of animals.</li> <li>- Aware the</li> </ul>

			Mustard and Dairy	Stem borer and different diseases in Paddy crop. -Farmer faces severe infestation of top borer and pokka boing in Sugarcane crop, Stem borer and different diseases in Paddy crop. -Farmer faces severe infestation of top borer and pokka boing in Sugarcane crop, Stem borer and different diseases in Paddy crop.	farmers clean milk production. - Give knowledge about suitable insecticide-pesticide regarding concern insect-pests. - Appropriate and balance use of fertilizer. - Awareness about soil testing.
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## 2.8 Priority/ Thrust Areas

S.N.	Crop/ Enterprise	Thrust area
1.	Rice/Wheat	Integrated Pest Management in rice and Integrated plant nutrient management in rice -wheat cropping.
2.	Rice/Wheat	Integrated Disease Management in rice integrated weed management in rice -wheat cropping
3.	Pulses	Enhancing the area under Kharif & Rabi pulses
4.	Oil seeds	Enhancing the area under Kharif & Rabi oil seeds.
5.	Cereals/Pulses/ Oil seeds	IPM in crops
6.	Cereals/Pulses/ Oil seeds	Promotion of new released varieties.
7.	Seed production	Promotion of seed production in different crops.
8.	Mango	Rejuvenation of old mango orchards
9.	Guava	Management of Guava orchards.
10.	Vegetables	Promotion of organic farming in vegetables.
11.	Floriculture	Promotion of income generating crops.
12.	Bee-keeping	Popularization of Bee-keeping
13.	Vermi compost	Popularization of Vermi composting
14.	Mushroom	Promotion of mushroom production



### 3 .TECHNICAL PROGRAMME

#### 3. A. Details of targeted mandatory activities by KVK during 2023

OFT		FLD			
No. of OFTs	No. of Farmers	Crops		Livestock	
		Area (ha)	No. of Farmers	No. of unit	No. of Farmers
13	70	84	260	58	58

CFLD – NFSM Project	
Crops	
Area (ha)	No. of Farmers
30.0	75

Training		Extension Activities	
No. of Courses	No. of Participants	No. of activities	No. of participants
128	2740	438	4708

Seed Production (Qtl.)	Planting material (Nos.)
200	20000

### 3 B. Abstract of interventions to be undertaken

S. No	Thrust areas	Crop/ Enterprise	Identified problem	Title of OFT if any	Title of FLD if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.	Title of Training, if any
1	Weed management	Wheat	Weed infestation	Assesment of Herbicide on the basis of weed flora infestation	-		Field day	Herbicide	Wheat production techniques under late sown condition
2	Inter cropping	Mentha + Wheat	Low yield Wheat	Demo of high yielding variety			Field day	Wheat Seed Var. DBW-187	Improved varieties of wheat and their production
3	Weed management	Paddy	Low yield due to weed		Low yield of paddy crop due to weed infestation	-	Field Day	Triafamone 20%+Ethoxysulfuron 10% WG	-
4	Intercropping	Mentha + Wheat	Low income due to sole crop of mantha		Low income due to sole crop of mantha	-	Field Day	Golden/koshi + DBW222	-
5	Weed Management	Wheat	Low yield due to weed	-	Weed management in wheat through Sulfosulfuron + Metsulfuron 5% WG@40 gm/ha.	-	Field Day	HD-2967	-

6	Variety Evaluation	Paddy	Lack aware about new variety	-	Promotion of high yielding variety PR-124 under Rice – Wheat Cropping System	-	Field Day	PR-124/PR-121	-
7	INM	Paddy	Low productivity of paddy	Assessment of liquid Nano fertilizer in paddy crop.	-	-	Field Day	Nano Urea	-
8	INM	Wheat	Low productivity of wheat	Assessment of liquid Nano fertilizer nutrient in wheat crops.	-	-	Field Day	Nano Urea	-
9	INM	Paddy	Imbalance use of fertilizer	-	Nutrient management through water soluble fertilizers (18:18:18) N:P:K in paddy		Field Day	18:18:18 N:P:K - 12.5 Kg/ha.	
10	INM	Wheat	Imbalance use of fertilizer	-	Nutrient management through water soluble fertilizers (18:18:18) N:P:K in wheat		Field Day	18:18:18 N:P:K - 12.5 Kg/ha.	
11	INM	Sugarcane	Imbalance use of fertilizer	-	Nutrient management through water soluble fertilizers (18:18:18) N:P:K in S.cane		Field Day	18:18:18 N:P:K - 13.75 Kg/ha.	-
12	INM	Sugarcane	Imbalance use of fertilizer	-	Nutrient management through Sulphur		Field Day	Sulphar - 30 Kg/ha.	
13	Dairy Farming	Buffalo	Milk Production Management	- Evaluation of clinical and non-clinical treatment for post-calving anoestrous in		-	Field Day	Receptal (Gonadotrophic hormone)	-

				buffaloes					
14	Dairy Farming	Buffalo	Low income	Assessment of desi breed (Kadaknath) of poultry. treatment for post-calving anoestrous in buffaloes	-	-	Field Day	Chiks of Kadaknath	-
15	Dairy Farming	Buffalo/Cattle	Animal Fodder	-	Urea treated wheat straw	-	Field Day	Urea	-
16	Dairy Farming	Buffalo/Cattle	Mineral Mixture	-	Imbalance feeding in milch cattle/ buffalo	-	Field Day	Mineral Mixture	-
17	Dairy Farming	Murrah/Sahiwal	Green Fodder	-	Green fodder production in	-	Field Day	Barsim seed Variety- BL-42	-
18	Dairy Farming	Murrah/Sahiwal	Deworming	-	Deworming of calf	-	Field Day	Albendazole syrup 10 ml-30 vials + Livol powder- 100gm /pkt-10	-
19	Horticulture	Guava	Yield loss	Quantitative and qualitative loss in Guava	-	-	Field day	N.P.K 25 Tree @ 900 gm / tree@rs40/Tree	
20	Horticulture	Vegetable Pea	Improved Variety	Evaluation of improved varieties of vegetable pea	--	-	Field day	Pant Sabzi mater -3	-

21	Storage loss minimization techniques	mango	Wastage of fruits due to lack of post harvest management	Post harvest management of mango	Mango pickles through the use of salt,spices,oil, preservatives	-	Field Day	-	-
22	Women and child care	ginger	Women/girls sometimes facing unbearable pain during menstrual cycle	Value addition of ginger	-	-	Field Day	-	-
23	Value addition	guava	Digestive problems	-	Value added products -Guava nectar, guava RTS beverages		Field Day	-	-
24	Women and child care	soybean	Low protein intake	-	Preparation of Tofu, Soy milk		Field Day	-	-
25	Value addition	banana	Low energy intake in snacks	-	Preparation of Banana chips		Field Day	-	-
26	IDM	S. Cane	Pokka Boing	Management of pokka boing in sugarcane crop.	-	-	Field day	Copper oxy chloride	
27	IDM	Paddy	Sheath blight	Management of different diseases in paddy crop.	-	-	Field day	Tebuconazole 50% + Trifloxistrobin 25%	
28	IDM	Urdbeen	YMV		Management of Yellow Mosaic Virus	-	Field day	Dimethoate 25% EC	
29	IPM	Paddy	Sucking insect-pests		Control of stem borer and rice Bug	-	Field day	Acephate 50% + Imidacloprid 5%	
30	IDM	S. Cane	Red rot issue		Seed treatment of S. Cane sets at the time		Field day	Carbendazim 12% + Mancozeb 63%	

					of sowing				
31	Crop Production	Wheat-Mentha	Intercropping	-	-	Production technique of wheat + Mantha in intercropping	-	-	-
32	Crop Production	General		-	-	Role of Information and Communication Technology in agriculture	-	-	-
33	Crop Production Crop Production	Paddy	Production Technique	-	-	High yielding varieties of Paddy and production technique	-	-	-
34	Crop Production	EPO	-	-	-	FPOs to boost Income of small farmers	-	-	-
35	Crop Production	General	-	-	-	Smart Farming future of agriculture	-	-	-
36	Crop Production	All crops	-	-	-	Natural farming	-	-	-
37	INM	Sugarcane	-	-	-	Advantase of Nadep and Vermi compost in Sugarcane	-	-	-
38	INM	Bio-pesticides	-	-	-	Use of bio-fertilizers in paddy	-	-	-
39	INM	Oilseed	-	-	-	Importance of sulphur in oilseed	-	-	-

40	INM	Bio- Fertilizer	-	-	-	Use of bio-fertilizers in sugarcane.	-	-	-
41	INM	Water Soluble fertilizer	-	-	-	Use of water soluble fertilizers in wheat.	-	-	-
42	LPM	Calf feed	-	-	-	Calf feed and its management	-	-	-
43	LPM	Natural Farming	-	-	-	Benefits of natural farming for human health	-	-	-
44	LPM	Production	-	-	-	Production & preservation green fodder	-	-	-
45	LPM	Natural farming	-	-	-	Importance of natural farming	-	-	-
46	LPM	Mineral mixture	-	-	-	Importance of Mineral mixture	-	-	-
47	LPM	Sterility	-	-	-	Sterility problem in milch animal	-	-	-
48	Horticulture	Nursery management				Techniques of nursery development of fruits plant			
49	Horticulture	Orchard Management				Orchard management practices for horticultural			

						crops			
50	Horticulture	Rose cultivation				Technical training on rose cultivation			
51	Horticulture	Rose cultivation				Technical training on rose cultivation			
52	Horticulture	Vegetables cultivation technique.				Scientific cultivation techniques for vegetables			
53	IPM	Red rot				Management of wheat rust. Management of red rot in sugarcane			
54	IPM	Pokka boing				Management of pokka boing in Sugarcane.			
55	IPM	YMV				Management of YMV in Urdbeen			
56	IPM	Stem borer				Management of rice stem borer and leaf folder through pheromone trap in paddy crop.			
57	IPM	IPM vegetables				IPM in rabi vegetables			



### **3.1 Technologies to be assessed and refined**

#### **B. 1 Abstract on the number of technologies to be assessed in respect of crops in respect of OFT**

Thematic areas	Cereals	Oil-seeds	Pulses	Commercial crops	Vegetables	Fruits	Flower	Plantation crops	Tuber crops	Total
Varietal evaluation	2	-	-	-	-	-	-	-	-	2
Integrated crop management	-	-	-	-	1	1	-	-	-	2
Integrated Nutrient management	2	-	-	-	-	-	-	-	-	2
Integrated pest management	1	-	-	1	-	-	-	-	-	2
Integrated disease management	1	-	-	-	-	-	-	-	-	1
<b>TOTAL</b>	<b>6</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>09</b>

#### **A.2 Abstract on the number of technologies refined in respect of crops:**

#### **A.3 Abstract on the number of technologies to be assessed in respect of livestock Enterprises in OFT -**

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	Total
Evaluation of Breeds	-	1	-	-	-	-	-	1
Production & Management	1	-	-	-	-	-	-	1
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>

#### **Summary of technology assessed under various enterprises by KVKs**

Thematic area	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
<b>Storage loss minimization techniques</b>	<b>Home Science</b>	Post harvest management of mango	<b>1</b>	<b>5</b>
<b>Women and child care</b>	<b>Home Science</b>	Value addition of ginger	<b>1</b>	<b>5</b>

## C. Details of On Farm Trial:

### Crop Production

#### OFT-1

#### Paddy Crop (Season –Kharif 2023)

Particulars	Contents
<b>Title</b>	Assessment of high yielding variety of paddy under rice-wheat system
<b>Problem diagnosed</b>	Low yield of paddy due to old varieties
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farm practice/common varieties T <sub>2</sub> : PR-126/PR-124
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Seed of PR-126 variety@30 kg/ha.
<b>Production system</b>	-
<b>Source of technology</b>	I.A.R.I., New Delhi
<b>Total Cost</b>	Rs. 4800/-(Approx)
<b>Observation to be recorded</b>	Plant height, Spike length, Grain Yield(qt./ha.),Economics
<b>Name of Scientist</b>	Lalit Kumar SMS (Agronomy)

#### OFT-2

#### Wheat Crop (Season –Rabi 2022-23)

Particulars	Contents
<b>Title</b>	Assessment of high yielding variety of Wheat under rice-wheat system
<b>Problem diagnosed</b>	Low yield of paddy due to old varieties
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farm practice/common varieties T <sub>2</sub> : DBW- 222(Karan Narendra)/DBW-187(Karan Vandna)
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Seed of DBW- 222(Karan Narendra)/DBW-187(Karan Vandna)@100 kg/ha.
<b>Production system</b>	-
<b>Source of technology</b>	I.I.W.B.R., Karnal
<b>Total Cost</b>	Rs. 5000/-(Approx)
<b>Observation to be recorded</b>	Plant height, Spike length, Grain Yield(qt./ha.),Economics
<b>Name of Scientist</b>	Lalit Kumar SMS (Agronomy)

## Soil Science

### OFT-3 INTEGRATED NUTRIENT MANAGEMENT

#### Paddy crop (Season - Kharif - 2023)

Particulars	Contents
<b>Title</b>	Assessment of liquid Nano fertilizer in paddy crop.
<b>Problem diagnosed</b>	Low productivity of paddy.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (120:60:40 NPK) T <sub>2</sub> : Liquid Nano fertilizer management
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Liquid Nano fertilizer @ 12.5 Lit /ha
<b>Production system</b>	Rice -Wheat
<b>Source of technology</b>	SVPUA&T, Meerut
<b>Total Cost</b>	Rs. 3000/- approx.
<b>Observation to be recorded</b>	i. Effective tillers per meter row length. ii. 1000 grain weight (g) iii. No. of grain/ear. iv. No. of tiller/hill v. C:B ratio vi. Yield (q/ha)
<b>Name of Scientist</b>	Dr. Mohan Singh, SMS/Assit. Prof. (Soil Science)

### OFT-4 INTEGRATED NUTRIENT MANAGEMENT

#### Wheat crop (Season - Rabi 2023-24)

Particulars	Contents
<b>Title</b>	Assessment of liquid Nano fertilizer nutrient in wheat crops.
<b>Problem diagnosed</b>	Low productivity of wheat due to imbalance use of fertilizers.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (150:75:40) T <sub>2</sub> : Liquid Nano Fertilizer application
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Liquid Nano fertilizer @ 12.5 Lit /ha
<b>Production system</b>	Rice -Wheat
<b>Source of technology</b>	SVPUA&T, Meerut
<b>Total Cost</b>	Rs. 3000/- approx.
<b>Observation to be recorded</b>	i. Effective tillers per meter row length. ii. 1000 grain weight (g) iii. No. of grain/ear. iv. C:B ratio v. Yield (q/ha)
<b>Name of Scientist</b>	Dr. Mohan Singh, SMS/Assit. Prof. (Soil Science)

## Animal Science

### OFT-5 MILK PRODUCTION MANAGEMENT

Season - Rabi 2023-24

Particulars	Contents
<b>Title</b>	Evaluation of clinical and non-clinical treatment for post-calving anoestrous in buffaloes
<b>Problem diagnosed</b>	Higher incidences of post-calving anoestrous.
<b>Farming situation</b>	Crop production and animal husbandry.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (use of choker and common salt) T <sub>2</sub> : Receptal (Gonadotrophic hormone)inj. @ 2.5-5ml (2 hours before A I) after 40 days of calving.
<b>No. of farmers</b>	10
<b>Replications</b>	10
<b>Critical inputs</b>	Receptal (Gonadotrophic hormone)
<b>Production system</b>	Dairy farming
<b>Source of technology</b>	I.V.R.I., Bareilly
<b>Total Cost</b>	Rs. 2500/- approx.
<b>Observation to be recorded</b>	i. No. of cured animals ii. C:B ratio
<b>Name of Scientist</b>	Dr. Manoj Kumar

### OFT-6 NUTRIENT MANAGEMENT

Kharif 2023

Particulars	Contents
<b>Title</b>	Assessment of desi breed (Kadakhath) of poultry.
<b>Problem diagnosed</b>	Low income.
<b>Farming situation</b>	Integrated farming system
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (use of unknown breed of poultry) T <sub>2</sub> : Breed of poultry Kadakhath.
<b>No. of farmers</b>	5
<b>Replications</b>	5
<b>Critical inputs</b>	20 chicks/farmer of Kadakhath
<b>Source of technology</b>	IVRI, Bareilly
<b>Total Cost</b>	Rs. 4000/- approx.
<b>Observation to be recorded</b>	i. Mortality rate ii. C:B ratio
<b>Name of Scientist</b>	Dr. Manoj Kumar

**OFT 7- Storage loss minimization techniques  
(RABI 2023)**

S.NO.	Particulars	Contents
1	Title	Post harvest management of mango
2	Problem Diagnosed	Wastage of fruits due to lack of post harvest management
3	Micro Farming situation	Irrigated
4	Thematic area	Storage loss minimization techniques
5	Details of technology identified for solution	T1: No grading & packing T2: Proper grading and packing in crates
6	No. of women Farmers	05
7	Replications	-
8	Critical inputs	Packing materials
9	Production system	-
10	Source of technology	-
11	Total cost	4000/-
12	Observations to be recorded	Cost of packing, economics, B:C ratio
13	Name of Scientist	Dr. Neha Singh, SMS (Home Science)

**OFT 8- Women and child care  
(KHARIF 2023)**

S.NO.	Particulars	Contents
1	Title	Value addition of ginger
2	Problem Diagnosed	Women/girls sometimes facing unbearable pain during menstrual cycle
3	Micro Farming situation	-
4	Thematic area	Women and child care
5	Details of technology identified for solution	T1: No use of ginger during menstrual pain T2: Using ginger value added products during menstrual pain
6	No. of women Farmers	05
7	Replications	-
8	Critical inputs	Preparation materials (Ginger,salt,sugar,other spices)
9	Production system	-
10	Source of technology	-
11	Total cost	2500/-
12	Observations to be recorded	acceptability, economics, B:C ratio
13	Name of Scientist	Dr. Neha Singh, SMS (Home Science)

**Plant Protection**

**OFT-9 Integrated Pest management  
Paddy crop (Season - Kharif - 2023)**

Particulars	Contents
Title	Management of brown plant hopper in paddy crop
Problem diagnosed	Low productivity of paddy due to heavy infestation of BPH in basmati paddy.

<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> :Farmers practice (use of Buprofezin @ 875-1000 ml/ha (Two Spray) T <sub>2</sub> : Use of Dinotofuron 15% +Pymetrozine 45% % WG (333 gm/ha).
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Dinotofuron 15% + Pymetrozine 45% % WG
<b>Production system</b>	Rice –Wheat
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost</b>	Rs. 6500/- approx.
<b>Observation to be recorded</b>	i. Infestation of insects % ii. Yield (q/ha) iii. Economics
<b>Name of Scientist</b>	Dr. Vishvendra

**OFT-10 INTEGRATED PEST MANAGEMENT**  
**Sugarcane crop (Season – Kharif, 2023)**

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Management of pokka boing in sugarcane crop.
<b>Problem diagnosed</b>	Low productivity of S. cane due to infestation of pokka boing.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice use of Thiophanate methyl 70% WP @ 500-750 lit/ha. T <sub>2</sub> : Use of Copper oxy chloride 50% WP @ 2.5 kg/ha.
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Copper oxy chloride 50% WP
<b>Production system</b>	Paddy-mustard-Sugarcane
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost</b>	Rs. 4800/- approx.
<b>Observation to be recorded</b>	i. Infestation of disease incidence % ii. Yield (q/ha) iii. Economics
<b>Name of Scientist</b>	Dr. Vishvendra

**OFT 11- INTEGRATED PEST MANAGEMENT****Paddy crop (Season- Kharif, 2023)**

Particulars	Contents
<b>Title</b>	Management of different diseases in paddy crop.
<b>Problem diagnosed</b>	Low productivity of paddy due to infestation of different diseases.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> :Farmers practice use of Hexaconazole 4% + Zineb 68% @ 1kg/ha.. T <sub>2</sub> : Use of Tebuconazole 50% + Trifloxistrobin 25% @ 200 gm/ha.
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Tebuconazole 50% + Trifloxistrobin 25%
<b>Production system</b>	Paddy-mustard-Sugarcane
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost</b>	Rs. 3500/- approx.
<b>Observation to be recorded</b>	i. Infestation of disease incidence % ii. Yield (q/ha) iii. Economics
<b>Name of Scientist</b>	Dr. Vishvendra

**Horticulture****OFT 12- Kharif 2023****Paddy crop (Season - Kharif 2023)**

Particulars	Contents
<b>Title</b>	Quantitative and qualitative loss in Guava
<b>Problem diagnosed</b>	Imbalance and improper use of major and micro nutrients
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Farmer’s Practice- Imbalance and improper use of fertilizer and micro Nutrient T <sub>2</sub> –Use of N.P.K @ (360 gm N <sub>2</sub> :180 gm P <sub>2</sub> O <sub>5</sub> :360 gm K <sub>20</sub> ) / Tree
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	N.P.K 25 Tree @ 900 gm / tree@rs40/Tree
<b>Production system</b>	Total no of Tree 25 no.@ 5 tree/Replication
<b>Source of technology</b>	I.A.R.I., New Delhi
<b>Total Cost</b>	Rs. 1000/- approx.
<b>Observation to be recorded</b>	No. of fruits per plants Yield (q/ha)
<b>Name of Scientist</b>	Dr. S.S. Verma

**OFT- 13****Garden pea (Season - Zaid 2023)**

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Evaluation of improved varieties of vegetable pea
<b>Problem diagnosed</b>	Local varieties Arkil
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> – Old varieties - Arkil . T <sub>2</sub> – Pant Sabzi mater -3
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Seed : 40 kg@ 120 Rs/kg
<b>Production system</b>	500 m <sup>2</sup> /Treatment
<b>Source of technology</b>	GBPUA&T, Pantnagar
<b>Total Cost</b>	Rs. 4800/- approx.
<b>Observation to be recorded</b>	<b>I. Technical</b> a. No. of pods per plants b. pests severity c. Yield (q/ha)
<b>Name of Scientist</b>	Dr. S.S. Verma



### 3.2 Frontline Demonstrations

#### 3.2.1 FLD on Oil seeds & Pulses under NFSM Project

##### A. Oil Seeds: -

##### B. Pulses :

##### I. Blackgram

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Urd bean	Mass - 479 or As per availability	Integrated crop management	To demonstrate the HYV (Mass - 479), weed mang. (Imazathyper, Sulphur (@ 25 Kg/ha.) & Yellow mosaic management (Imedaclorpid@ 250 ml/ha.) in urd crop.	- Seed (HYV) - Imazathapyr @ 625 ml/ha. - Water soluble fertilizer (18:18:18) @ 5 Kg/ha. - Sulphur @ 25 Kg/ha. - Imidachlorpid @ 250ml/ha. Total cost= Rs. 1,80,000/-	<i>Kharif</i> 2023	20.0	50	- Yield (q/ha.) - B:C ratio

##### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Sept./ Oct.2023	25
2	Farmers training	01	Aug.2023	20
3	Media coverage	02	-	-
4	Training for extension functionaries	01	Aug, 2023	10

## II. Lentil

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Lentil	PL - 8	- ICM	- To demonstrate the HYV (PL-8), Sulphur application (@ 25 Kg/ha) + (Blight management (@ 2 Kg Mancozeb)	- HYV of lentil (200 kg) - Sulphur @ 25 Kg/ha. - Rhizobium culture - Water soluble (18:18:18) @ 5 Kg/ha. - Mencozeb 75% WP @ 2 kg/ha. - Monocrotophas 36% SL @ 1.5 lit/ha. - Budget required Rs. 180,000/-	Rabi 2023-24	10.0	25	- Incidence of wilt disease - Yield (q/ha.) - B:C ratio

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	1	Jan 2024	35
2	Farmers training	1	Oct 2023	20
3	Media coverage	2	-	-
4	Training for extension functionaries	-	-	-

### Sponsored Demonstration C-FLDs under NFSM

Sl. No.	Crop	Area (ha)	No. of farmers
1	Black gram (Kharif 2023)	20.0 ha.	50
2	Lentil (Rabi 2023-24)	10.0 ha.	25
	<b>TOTAL</b>	<b>30.0 ha</b>	<b>75</b>

### 3.2.2 FLD Other than oil seeds & Pulses

#### FLD No. – 1

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	All Basmati varieties	Weed management	Low yield of paddy crop due to weed infestation	Herbicide- Triafamone 20%+Ethoxysulfuron 10% WG @225 gm/ha.  Total cost- 11000-/-	kharif  2023	4	10	- Grain yield q/ha. - Weed population - Economics

#### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Oct. 2023	20
2	Farmers training	01	June 2023	20
3	Media coverage			

#### FLD No. – 2

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Mentha + Wheat	Golden/koshi  + DBW222	Intercropping	Low income due to sole crop of mantha	Wheat Seed Var. DBW 222  @100 kg/ha.  Total cost –10000/ha	Rabi  2022-23	2.0	10	- Yield (q/ha.) - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Jan. 2024	20
3	Media coverage			

**FLD No. – 3**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	HD-2967	- Weed management	Weed management in wheat through Sulfosulfuron + Metsulfuron 5% WG@40 gm/ha.	Weedicide Sulfosulfuron + Metsulfuron 5% WG  Total cost- 6000/-	Rabi 2022-23	6.0	15	- Yield q/ha. . - Weed Population - Economics -

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Jan. 2024	20
3	Media coverage			

**FLD No. - 4**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	PR-124/PR-121	Varietal Evaluation	Promotion of high yielding variety PR-124 under Rice – Wheat Cropping System	PR-124/PR-121 Seed 60 kg. Total Cost- 7600/-	Kharif 2022	2.0	10	- No. of grains/Spike - 1000 Grain weight(g) - Grain Yield (q/ha) - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Oct. 2023	20
2	Media coverage		-	-

**FLD No. – 5**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	PB - 1509	INM	- Nutrient management through water soluble fertilizers (18:18:18) N:P:K in paddy @ 12.5 Kg/ha	18:18:18 N:P:K - 12.5 Kg/ha. @ Rs. 150/ kg. Cost – 1875/- ha. Total cost – Rs. 11250/-	Kharif 2023	6.0	15	- Tillers/m <sup>2</sup> - No. of grains/spike - 1000 gm grain weight - Grain yield q/ha. - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	September 2023	20
2	Farmers training	01	May/June 2023	20
3	Media coverage	02	-	Mass

**FLD No. – 6**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	HD-2967	INM	- Nutrient management through water soluble fertilizers (18:18:18) N:P:K in wheat @ 12.5 Kg/ha	18:18:18 N:P:K - 12.5 Kg/ha. @ Rs. 150/ kg. Cost – 1875/- ha. Total cost – Rs. 11250/-	Rabi 2023-24	6.0	15	- Tillers/m <sup>2</sup> - No. of grains/spike - 1000 gm grain weight - Grain yield q/ha. - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Nov.2023	20
3	Media coverage	02	-	Mass

**FLD No. – 7**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
S. cane	CO-0238	- INM	- Nutrient management through water soluble fertilizers (18:18:18) N:P:K in S.cane @ 13.75 Kg/ha .	18:18:18 N:P:K - 13.75 Kg/ha. @ Rs. 150/ kg. Cost – 2063/- ha. Total cost – Rs. 12375/-	Zaid- 2023	6.0	15	- Yield (q/ha.) - Economics - Diameter

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Feb 2023	20
3	Media coverage	02	-	Mass

**FLD No. – 8**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
S. cane	CO - 0238	- INM	- Nutrient management through Sulphur @ 30 Kg/ha. in S.cane	Sulphar - 30 Kg/ha. @ Rs. 65/ kg Cost – Rs. 1950/-ha. Total cost – Rs.11700 /-	Zaid 2023	6.0	15	- Yield q/ha. . - Economics - Diameter

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Feb. 2023	20
3	Media coverage	02	-	Mass

## Animal Husbandry & Dairying

### FLD No. – 9

Animal	Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of Animals	No. of farmers	Parameter identified
Buffalo	Murrah	Animal fodder	Urea treated wheat straw	Urea 180 kg Total Cost- Rs. 1120-/-	Zaid, 2023	10	10	Milk yield and health reaction

### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	April- 2023	20
2	Media coverage	01	-	-

### FLD No. – 10

Animal	Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of Animals	No. of farmers	Parameter identified
Buffalo/ Cattle	Murrah/Sahiwal	Animal feeding	Imbalance feeding in milch cattle/ buffalo	Mineral Mixture @ 50gm/day/animal  Total Cost- 15000-/-	Rabi, 2023	28	28	1- Milk yield and health reaction, 2- Proper heat period. 3- B:C Ratio

### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Oct 2023	30
2	Media coverage	01	-	-



**FLD No. – 11**

Animal	Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of Animals	No. of farmers	Parameter identified
Buffalo/ Cattle	Murrah/Sahiwal	Animal feeding	Green fodder production in Rabi - 2023.	Barsim seed Variety- BL-42  Total Cost- 4000-/-	Rabi, 2023	10	10	1- Milk yield and health reaction, 2- Proper heat period. 3- B:C Ratio

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Dec- 2023	20
2	Media coverage	01	-	-

**FLD No. – 12**

Animal	Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of Animals	No. of farmers	Parameter identified
Buffalo/ Cattle	Murrah/Sahiwal	Dairy management	Deworming of calf	Albendazole syrup 10 ml- 30 vials + Livol powder- 100gm /pkt-10  Total Cost- 5000-/-	Rabi, 2023	10	10	1- Mortality rate. 2- B:C Ratio

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Dec- 2023	20
2	Media coverage	01	-	-

**FLD No. – 13**

Crop/enterprise	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of women farmer	No. of farmers	Parameter identified
Mango	Locally available	Dairy management	Storage loss minimization techniques	Salt-1 kg Spices-300gm Oil-2 litre Preservative-KMS 100 Total Cost- 2500/-	Kharif, 2023	10	10	1-Shelf life of pickles, 2-Economics,

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Nov- 2023	20
2	Media coverage	01	-	-

**FLD No. – 14**

Crop/enterprise	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of women farmer	No. of farmers	Parameter identified
Guava	Locally available	Value addition	Guava nectar, guava RTS beverages	Salt-1 kg Sugar- 1 Kg  Total cost-2000/-	Kharif, 2023	10	10	Acceptability, Shelf life of nectar, RTS Beverages economics, BC ratio

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	August- 2023	20
2	Media coverage	01	-	-

**FLD No. – 15**

Crop/enterprise	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of women farmer	No. of farmers	Parameter identified
Soyabean	Locally available	Women and child care	Tofu, Soy milk	Soybean-2 kg Sugar- 1 Kg Total cost-2000/-	Zaid, 2023	10	10	Acceptability, Shelf life of tofu, soy milk, economics, BC ratio

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	April- 2023	20
2	Media coverage	01	-	-

**FLD No. – 16**

Crop/enterprise	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of women farmer	No. of farmers	Parameter identified
Banana	Locally available	Value addition	Banana chips	Banana-2 kg Spices-200 gm Salt-1/2 Kg Oil- 1.5 Litre Total cost-1000/-	Kharif, 2023	10	10	Acceptability, economics, BC ratio

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Sep- 2023	20
2	Media coverage	01	-	-

**FLD No. – 17****Horticulture**

<b>Crop/enterprise</b>	<b>Variety</b>	<b>Thematic area</b>	<b>Technology Demonstrated</b>	<b>Critical input</b>	<b>Season and year</b>	<b>No. of farmer</b>	<b>No. of farmers</b>	<b>Parameter identified</b>
Radish	Locally available	Varietal Evaluation	Evaluation of different varieties	Use of HYV Seed @ 9-12 kg/ha. 6 kg Seed	Kharif, 2023	5	5	-Yield q/ha -Length, weight, color

**Extension and Training Activities**

<b>Sl. No.</b>	<b>Activity</b>	<b>No. of activities</b>	<b>Month</b>	<b>No. of participation</b>
1	Field day	01	September- 2023	20
2	Media coverage	01	-	-

**FLD No. – 18****Horticulture**

<b>Crop/enterprise</b>	<b>Variety</b>	<b>Thematic area</b>	<b>Technology Demonstrated</b>	<b>Critical input</b>	<b>Season and year</b>	<b>No. of farmer</b>	<b>No. of farmers</b>	<b>Parameter identified</b>
Brinjal	Locally available	Varietal Evaluation	Evaluation of different varieties	Use of HYV Seed @ 400-500 g/ha. Seed 250 gm.	Rabi, 2023	5	5	-Yield q/ha -Length, weight, color

**Extension and Training Activities**

<b>Sl. No.</b>	<b>Activity</b>	<b>No. of activities</b>	<b>Month</b>	<b>No. of participation</b>
1	Field day	01	December- 2023	20
2	Media coverage	01	-	-

**FLD No. – 19**  
**Horticulture**

Crop/enterprise	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of farmer	No. of farmers	Parameter identified
Cauliflower	Locally available	Varietal Evaluation	Evaluation of different varieties	Use of HYV Seed @ 400-500 g/ha. Seed 200 gm.	Rabi, 2023	5	5	-Yield q/ha -Length, weight, color

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	December- 2023	20
2	Media coverage	01	-	-

**FLD No. – 20**  
**Horticulture**

Crop/enterprise	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	No. of farmer	No. of farmers	Parameter identified
Okra	Locally available	Varietal Evaluation	Evaluation of different varieties	Use of HYV Seed @ 12-14 kg/ha. Seed 6 kg.	Kharif, 2023	5	5	-Yield q/ha -Length, weight, color

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	June- 2023	20
2	Media coverage	01	-	-

**FLD No. – 21**  
**Plant Protection**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Turai	SVKP5112	IDM	Management of Yellow Mosaic Virus through Dimethoate 25% EC @ 400 ML/ha. (two spray)	Dimethoate 25% EC @ 400 ML/ha. 8 kg Total cost - 8500/-	Kharif, 2023	4.0	10	- Disease incidence % - Yield (q/ha) - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Sept. 2023	20
2	Media coverage	01	-	-

**FLD No. – 22**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	All paddy variety	IPM	Control of stem borer and rice Bug through Acephate 50% + Imidacloprid 5% @ 1 kg/ha	Acephate 50% + Imidacloprid 5% @ 1 kg/ha Total cost - 5500/-	Kharif, 2023	4.0	10	- Insect infestation % - Yield (q/ha) - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Sept- Oct. 2023	20
2	Media coverage	01	-	-

**FLD No. -23**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Sugarcane	C0-0238	IDM	Seed treatment of S. Cane sets at the time of sowing through Carbendazim 12% + Mancozeb 63% @ 2gm/litre of water.	Carbendazim 12% + Mancozeb 63% @ 2gm/litre of water. Total cost - 4000/-	Autumn, 2023	4.0	10	- Disease infestation % - Yield (q/ha). - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Aug- Sep 2023	20
2	Media coverage	01	-	-

**FLD No. – 24**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Sugarcane	C0-0238	IPM	Soil application of Tricoderma viridi at the time of sowing @ 2-3 kg with 100 kg of dunk.	Tricoderma viridi @ @ 2-3 kg with 100 kg of dunk. Total cost - 4200/-	Zaid, 2023	4.0	10	- Insect infestation % - Yield (q/ha). - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field day	01	Feb- March 2024	20
2	Media coverage	01	-	-

### 3.3 Training (Including the sponsored and FLD training programmes):

#### a. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Resource Conservation Technologies	1	16		16	4		4	20
Cropping Systems	1	16		16	4		4	20
Water management	1	16		16	4		4	20
Seed production	3	48		48	12		12	60
Nursery management	1	16		16	4		4	20
Integrated Crop Management	1	16		16	4		4	20
<b>II Horticulture</b>								
<b>a) Fruits</b>								
Cultivation of Fruit	01	15	0	15	05	0	05	20
Management of young plants/orchards	01	15	0	15	05	0	05	20
Plant propagation techniques	01	15	0	15	05	0	05	20
<b>b) Ornamental Plants</b>								
Propagation techniques of Ornamental Plants	01	15	0	15	05	0	05	20
<b>d) Plantation crops</b>								
<b>III Soil Health and Fertility Management</b>								
Integrated Nutrient Management	03	48	-	12	12	-	12	60
Production and use of organic inputs	03	48	-	12	12	-	12	60
<b>IV Livestock Production and Management</b>								
Disease Management	03	51	-	51	09	-	09	60
Feed management	02	34	-	34	06	-	06	40
Production of quality animal products	01	17	-	17	03	-	03	20
<b>V Home Science/Women empowerment</b>								
Design and development of low/minimum cost diet	2	-	36	36	-	04	04	40
Minimization of nutrient loss in processing	1	-	19	19	-	01	01	20
Storage loss minimization techniques	4	-	72	72	-	08	08	80
Women and child care	1		19	19	-	01	01	20
<b>VI Plant Protection</b>								
Integrated Pest Management	03	50	-	50	10	-	10	60
Integrated Disease Management	03	48	-	48	12	-	12	60
<b>TOTAL</b>	<b>38</b>	<b>484</b>	<b>146</b>	<b>558</b>	<b>116</b>	<b>14</b>	<b>130</b>	<b>760</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08		08	02	-	02	10
Bee-keeping	01	07	-	07	03	-	03	10
Integrated farming	01	8		8	2		2	10
Seed production	02	16		16	4		4	20
Production of organic inputs	04	32	-	32	08	-	08	40
Vermi-culture	02	15	-	15	05	-	05	20



Sheep and goat rearing	01	08	-	08	02	-	02	10
Poultry production	01	08	-	08	02	-	02	10
Small scale processing	01	-	08	08	-	02	02	10
Post Harvest Technology	01	8		8	2		2	10
Tailoring and Stitching	01	-	08	08	-	02	02	10
Rural Crafts	02	-	18	18	-	02	02	20
<b>TOTAL</b>	<b>18</b>	<b>110</b>	<b>34</b>	<b>144</b>	<b>30</b>	<b>6</b>	<b>36</b>	<b>180</b>
<b>(C) Extension Personnel</b>								
Integrated Nutrient management	5	80	-	80	20	-	20	100
Women and Child care	01	-	18	18	-	02	02	20
Any other (Pl. Specify)	05	-	92	92	-	08	08	100
<b>TOTAL</b>	<b>11</b>	<b>80</b>	<b>100</b>	<b>100</b>		<b>10</b>	<b>08</b>	<b>220</b>
<b>G. Total</b>	<b>67</b>	<b>674</b>	<b>280</b>	<b>802</b>	<b>146</b>	<b>30</b>	<b>174</b>	<b>1160</b>

**b. OFF Campus**

Thematic Area	No. of Courses	No. of Participants							Grand Total
		Others			SC/ST				
		Male	Female	Total	Male	Female	Total		
<b>(A) Farmers &amp; Farm Women</b>									
<b>I Crop Production</b>									
Resource Conservation Technologies	2	32		32	8		8	40	
Cropping Systems	1	16		16	4		4	20	
Crop Diversification	2	32		32	8		8	40	
Water management	2	32		32	8		8	40	
Seed production	1	16		16	4		4	20	
<b>II Horticulture</b>									
<b>a) Vegetable Crops</b>									
Production of low volume and high value crops	01	15	0	15	05	0	05	20	
<b>b) Fruits</b>									
Layout and Management of Orchards	01	15	0	15	05	0	05	20	
Cultivation of Fruit	02	30	0	30	10	0	10	40	
<b>c) Medicinal and Aromatic Plants</b>									
Production and management technology	02	30	0	30	10	0	10	40	
<b>III Soil Health and Fertility Management</b>									
Integrated Nutrient Management	03	48	-	48	-	12	-	60	
Production and use of organic inputs	03	48	-	48	-	12	-	60	
<b>IV Livestock Production and Management</b>									
Dairy Management	01	17	-	17	03	-	03	20	
Disease Management	01	17	-	17	03	-	03	20	
Feed management	04	68	-	68	12	-	12	80	
<b>V Home Science/Women empowerment</b>									
Designing and development for high nutrient efficiency diet	2	-	32	32	-	08	08	40	

Storage loss minimization techniques	1	-	17	17	-	03	03	20
Value addition	1		17	17	-	03	03	20
Income generation activities for empowerment of rural Women	1		17	17	-	03	03	20
Women and child care	1		17	17	-	03	03	20
<b>VI Plant Protection</b>								
Integrated Pest Management	03	52	-	52	08	-	08	60
Integrated Disease Management	03	49	-	49	11	-	11	60
Bio-control of pests and diseases	01	16	-	16	4	-	4	20
<b>TOTAL</b>	<b>39</b>	<b>533</b>	<b>100</b>	<b>633</b>	<b>103</b>	<b>44</b>	<b>123</b>	<b>780</b>

<b>(B) Extension Personnel</b>								
Productivity enhancement in field crops	1	18		18	2		2	20
Integrated Pest Management	6	110	-	110	10	-	10	120
Group Dynamics and farmers organization	1	18		18	2		2	20
Capacity building for ICT application	2	38		38	2		2	40
Management in farm animals	02	38		38	2		2	40
Livestock feed and fodder production	02	38		38	2		2	40
Production and use of organic inputs	03	56	-	56	06	-	06	60
Any other (Horticulture)	04	72	-	72	08	-	08	80
Varietal description and production technology of field crop	1	18		18	2		2	20
<b>TOTAL</b>	<b>22</b>	<b>406</b>		<b>406</b>	<b>36</b>		<b>36</b>	<b>440</b>
<b>G. Total</b>	<b>61</b>	<b>939</b>	<b>100</b>	<b>1039</b>	<b>139</b>	<b>44</b>	<b>159</b>	<b>1220</b>

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants							Grand Total
		Others			SC/ST				
		Male	Female	Total	Male	Female	Total		
<b>(A) Farmers &amp; Farm Women</b>									
<b>I Crop Production</b>									
Resource Conservation Technologies	3	55	-	55	05	-	05	60	
Cropping Systems	2	36	-	36	04	-	04	40	
Crop Diversification	2	36	-	36	04	-	04	40	
Water management	3	55	-	55	05	-	05	60	
Seed production	2	36	-	36	04	-	04	40	
Nursery management	1	17	-	17	03	-	03	20	
Integrated Crop Management	1	17	-	17	03	-	03	20	
<b>II Horticulture</b>									
<b>a) Vegetable Crops</b>									
Production of low volume and high value crops	1	15	0	15	5	0	5	20	
<b>b) Fruits</b>									
Layout and Management of Orchards	1	15	0	15	5	0	5	20	

Cultivation of Fruit	3	45	0	45	15	0	15	60
Management of young plants/orchards	1	15	0	15	5	0	5	20
Rejuvenation of old orchards	1	15	0	15	5	0	5	20
<b>c) Ornamental Plants</b>								
Propagation techniques of Ornamental Plants	1	15	0	15	5	0	5	20
<b>d) Medicinal and Aromatic Plants</b>								
Production and management technology	2	30	0	30	10	0	10	40
<b>III Soil Health and Fertility Management</b>								
Integrated Nutrient Management	06	96	-	96	24	-	24	120
Production and use of organic inputs	06	96	-	96	24	-	24	120
<b>IV Livestock Production and Management</b>								
Dairy Management	01	17	-	17	03	-	03	20
Disease Management	04	68	-	68	12	-	12	80
Feed management	06	102	-	102	18	-	18	120
Production of quality animal products	01	17	-	17	03	-	03	20
<b>V Home Science/Women empowerment</b>								
Design and development of low/minimum cost diet	2	-	36	36	-	04	04	40
Designing and development for high nutrient efficiency diet	2	-	36	36	-	04	04	40
Minimization of nutrient loss in processing	1	-	17	17	-	03	03	20
Storage loss minimization techniques	5	-	90	90	-	10	10	100
Value addition	1	-	17	17	-	03	03	20
Income generation activities for empowerment of rural Women	1	-	17	17	-	03	03	20
Women and child care	2	-	36	36	-	04	04	40
<b>VI Plant Protection</b>								
Integrated Pest Management	06	102	-	102	18	-	18	120
Integrated Disease Management	06	97	-	97	23	-	23	120
Bio-control of pests and diseases	01	17	-	17	03	-	03	20
<b>TOTAL</b>								
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08		08	02	-	02	10
Bee-keeping	01	07	-	07	03	-	03	10
Integrated farming	01	07	-	07	03	-	03	10
Seed production	02	15	-	15	05	-	05	20
Production of organic inputs	04	32	-	32	08	-	08	40
Vermi-culture	02	15	-	15	05	-	05	20
Nursery Management of Horticulture crops	2	16	0	16	4	0	4	20
Sheep and goat rearing	01	08	-	08	02	-	02	10
Poultry production	01	08	-	08	02	-	02	10
Small scale processing	01	-	08	08	-	02	02	10
Post Harvest Technology	01	07	-	07	03	-	03	10

Tailoring and Stitching	01	-	08	08	-	02	02	10	
Rural Crafts	2	-	16	16	-	04	04	20	
<b>TOTAL</b>									
<b>(C) Extension Personnel</b>									
Productivity enhancement in field crops	01	-	18	18	-	02	02	20	
Integrated Pest Management	06	110	-	110	10	-	10	120	
Integrated Nutrient management	05	80	-	80	20	-	20	100	
Group Dynamics and farmers organization	01	-	18	18	-	02	02	20	
Capacity building for ICT application	02	35	-	35	05	-	05	40	
Management in farm animals	02	35	-	35	05	-	05	40	
Livestock feed and fodder production	02	35	-	35	05	-	05	40	
Women and Child care	01	-	18	18	-	02	02	20	
Production and use of organic inputs	03	50	-	50	10	-	10	60	
Any other (Pl. Specify) Home science	05	-	90	90	-	10	10	100	
<b>TOTAL</b>		<b>128</b>	<b>2115</b>	<b>200</b>	<b>2078</b>	<b>321</b>	<b>88</b>	<b>318</b>	<b>2720</b>
<b>G. Total</b>		<b>128</b>	<b>2115</b>	<b>200</b>	<b>2078</b>	<b>321</b>	<b>88</b>	<b>318</b>	<b>2720</b>

Details of training programmers attached in **Annexure - 1**

Contd. 3.3 **SUMMARY OF TRAINING PROGRAMME**

**A.**

Subject	Practicing Farmer								Rural Youths			
	On Campus				Off Campus				On Campus			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
Crop Production	2	2	2	2	2	2	2	2	1	1	1	1
Soil Science	1	1	2	2	1	1	2	2	1	1	1	1
LPM	2	1	2	1	1	2	1	2	1	1	1	0
Home Science	2	2	1	2	1	2	2	1	1	1	1	1
Horticulture	1	2	0	2	2	1	2	1	1	0	0	1
Plant protection	1	0	4	1	2	0	2	1	0	-	1	1
<b>Total</b>	<b>9</b>	<b>8</b>	<b>11</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>13</b>	<b>9</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>5</b>
<b>Grand Total</b>	<b>38</b>				<b>38</b>				<b>19</b>			

**B.**

Subject	Sponsored				Extension Functionaries			
	I	II	III	IV	I	II	III	IV
<i>Crop Production</i>	As per H.Q.'s direction				1	1	2	2
Soil Science	-do-				1	1	2	1
LPM	-do-				1	1	1	2
Home Science	-do-				1	2	2	1
Horticulture	-do-				1	1	1	1
Plant protection	-do-				2	0	2	1
<b>TOTAL -</b>					<b>7</b>	<b>6</b>	<b>10</b>	<b>8</b>
<b>Grand Total</b>					<b>128</b>			

### 3.4 Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	24	440	40	480	-	-	-	440	40	480
Kisan Mela	01	200	25	225	25	-	25	225	25	250
Kisan Ghosthi	01	200	25	225	25	-	25	225	25	250
Exhibition	01	200	25	225	25	-	25	225	25	250
Film Show	15	200	100	300	45	-	45	245	100	345
Farmers Seminar										
Workshop										
Group meetings	02	40	-	40	05	-	05	45	-	45
Lectures delivered as resource persons	20	400	100	500	100	-	100	500	100	600
Newspaper coverage	50	-	-	-	-	-	-	-	-	Mass
Radio talks	05	-	-	-	-	-	-	-	-	Mass
TV talks	02	-	-	-	-	-	-	-	-	Mass
Popular articles	02	-	-	-	-	-	-	-	-	Mass
Extension Literature	05	-	-	-	-	-	-	-	-	Mass
Advisory Services										
Scientific visit to farmers field	100	350	-	350	50	-	50	400	-	400
Farmers visit to KVK	200	600	25	625	75	-	75	675	25	700
Diagnostic visits	10	200	50	250	-	-	-	200	50	250
Exposure visits	02	50	-	50	-	-	-	50	-	50
Ex-trainees Sammelan	01	50	-	50	03	-	03	53	-	53
Soil health Camp	04	200	100	300	-	-	-	200	100	300
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns	02	300	20	320	10	-	10	310	20	330
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	01	10	10	20	-	-	-	10	10	20
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	03	150	30	180	05	-	05	155	30	185
Krishi Mohostva										
Krishi Rath										
Pre Kharif workshop	-	-	-	-	-	-	-	-	-	-
Pre Rabi workshop	-	-	-	-	-	-	-	-	-	-
PPVFRA workshop										
PMFBY Sammelan										
Soil Health card distribution	02	450	25	475	25	-	25	475	25	500
Any Other (Specify)										
<b>Total</b>	<b>453</b>	<b>4040</b>	<b>575</b>	<b>4615</b>	<b>393</b>	<b>-</b>	<b>393</b>	<b>4433</b>	<b>575</b>	<b>4708</b>

**3.5 Target for Production and supply of Technological products Jan. 2023 to December 2023**  
**SEED MATERIALS**

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>CEREALS</b>	Paddy	PB 1509/other best variety	60.0
	Wheat	PBW 725 HD 3059/other best variety	120.0
<b>PULSES</b>			
	Urd/Arhar	PU-31/other best variety	20.0
			200.0

**PLANTING MATERIALS**

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>	Papaya	Pusa Nanha, Taiwan	1000
<b>VEGETABLES</b>			
	Tomato	Swarna Deepti & Swarna Anmol	2000
	Onion	Bheema Red & Bheema Dark Red	7000
<b>FOREST SPECIES</b>			
<b>ORNAMENTAL CROPS</b>	Marigold	Pusa Mosmi, Pusa Basanti	10000
		<b>Total</b>	<b>20000.00</b>

**Bio-products: nil**

**Livestock: nil**

**3.6. Literature to be Developed/Published**

(A) **KVK News Letter** (Date of start, Periodicity, number of copies to be published etc.)- Yet to be come

(B) Literature to be developed /published

Item	No. of copies
Research paper each scientist	1
Technical reports	7
New letters	1
Technical manual all discipline	2
Poplar articles	2
Extension literature	5
Other (specify)	-
<b>Total</b>	<b>18</b>

(C) **Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD/Audio-Cassette	Vermi-Compost/Pressmud composting	01
2	CD/Audio-Cassette	Balance Nutrient-management in Rabi crops.	01

**3.7. Success stories/Case studies identified for development as a case. 02**

- a. Brief introduction**
- b. Intervention**
- c. Output**
- d. Outcomes**
- e. Impact**
  - i) Social economics**
  - ii) Bio-Physical**
- f. Good Action Photographs**

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) PRA
- b) Group discussion
- c) Interviews.

**Rural Youth**

- a) PRA
- b) Group discussion

**In-service personnel**

- a) Departmental Meetings
- b) Group discussions.

**3.9 Indicate the methodology for identifying OFTs/FLDs**  
**For OFT:**

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions

**For FLD:** Nutrient management in Sugarcane, Paddy & Wheat, Control of blast disease in paddy & Weed management in paddy/wheat.

- xxxiv) New variety/technology
- xxxv) Poor yield at farmers level
- xxxvi) Existing cropping system

**3.10 Field activities**

i. Name of villages identified/adopted with block name (from which year) -

S. No.	Village Name	Block
1	Fattehpur Nattha	Bilari
2	Sihari Ladda	Bilari
3	Bachhal	Kundarki
4	Ronda	Munda Pandey
5	Sonakpur	Kundarki

- ii. No. of farm families selected per village : 50
- iii. No. of survey/PRA conducted : 01
- iv. No. of technologies taken to the adopted villages: 05
- v. Name of the technologies found suitable by the farmers of the adopted villages:



- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

### 3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. **Year of establishment** : 2011-12

#### 2. List of equipments purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1	Chemical balance	1 Nos.	82413.00
2	Physical balance	1 Nos.	21057.00
3	Water distillation unit	1 Nos.	126,563.00
4	Kjeldhal App distillation 6 flask	2 Nos.	58,853.00
5	Oven 600x455x455	1 Nos.	25,037.00
6	PH digital meter	1 Nos.	22,995.00
7	Conductivity meter	1 Nos.	19651.00
8	Mechanical shaker 36 flask	1 Nos.	52868.00
9	Microscope olympus	1 Nos.	10534.00
10	Grinder willy mill 100x50 ml	1 Nos.	34913.00
11	Hot plate 650x680x180	1 Nos.	6933.00
12	Rapid soil testing kit	2 Nos.	5912.00

#### 3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	500	20	100000.00
Water				
Plant				
<b>Total</b>	<b>500</b>	<b>500</b>	<b>20</b>	<b>100000.00</b>

### 4.0 LINKAGES

#### 4.1 Functional linkage with different organizations

Name of organization	Nature of linkage
Deptt. Of Agriculture	Diagnostic survey, Participation in Kisan Mela, Kisan Gosthi, Advisory service, Training and field days.
Deptt. Of Horticulture	Diagnostic survey, Participation in Kisan Mela, Kisan Gosthi, Advisory services, Training and field days.
Deptt. Of Animal Husbandry	Participation in Animal Health camp and Pashu Palak Gosthi, advisory services.
Deptt. Of soil conservation	Participation in training programmes & advisory services.
IFFCO/KRIBHCO	Participation in training programmes
NSC	Seed production programmes
NGO's	Participation in training programmes
SVPUA&T, Meerut	Participation in Farmer's fair, training prog., technology & meetings
ICAR	Financial support and technology (Newly released varieties and crop management)
IARI & SAU's	Technology (Newly released varieties and crop management)

**4.2 Details of linkage with ATMA**

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage
1.	Kisan Gosthi	Participation as resource person
2.	Field Day	Participation as resource person
3.	Kisan Mela	Participation as resource person
4	FLD	Participation as resource person
5	Validation trials	Participation as resource person
6	Farmers training	Participation as resource person
7	Exposure Visit	Participation as resource person

**4.3 Give details of programmes under National Horticultural Mission: NIL**

**4.4 Nature of linkage with National Fisheries Development Board : NIL**

**5.0 Utilization of hostel facilities: NIL**

**6.0 Convergence with departments: : NIL**

**7.1. Details of the programmes being implemented by your KVK in partnership with other institution**

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
1	F.T.T.	UP Govt.	3 days	0.20

**7.2. Brief achievements of above collaborative programmes: NIL**

**8.0 Feedback of the farmers about the technologies demonstrated and assessed:**

Feedback of the farmers will be taken.

**9.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:**

Feedback from the KVK Scientists will send to the University.

## Details of Training Programme

### (i) ON Campus training for Practicing Farmers and farm Women

I <sup>st</sup> Quarter											
Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
Crop Production	Improved varieties of wheat and their production Production Technology of Wheat + Mentha Inter cropping	11 Jan. 2023	PF	1	On	20	-	20	4	-	4
		4 Jan. 2023	PF	1	ON	20		20	4		4
Soil science	Use of water soluble fertilizers in wheat.	6 Jan. 23	PF	1	On	16	-	16	4	-	4
LPM	Symptoms and treatment of foot and mouth disease of in cattle. Prevention of HS and Black Quarter disease in animals.	16 Feb. 2023	PF	1	On	17	-	17	3	-	3
		03 March. 2023	PF	1	On	17	-	17	3	-	3
Home Science	Nutrient loss minimization techniques during cooking Spices preparation from locally available material	04 Jan 2023	PF	1	On	-	18	18	-	02	02
		02 Feb 2023	PF	1	On	-	18	18	-	02	02
Plant Protection	IPM technique in sugarcane crop.	02 Mar. 2023	PF	1	On	16	-	17	4	-	4
Horticulture	Nursery raising of vegetable crops through low poly tunnel	15.01.2023	PF	1	ON	17	-	17	03	-	03
Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
II <sup>nd</sup> Quarter											
Crop Production	Modernization of irrigation System using latest technology Paddy nursery Management	04 April.2023	PF	1	On	20	-	20	5	-	5
		11 May 2023	PF	1	On	20		20	5		5
Soil science	Use of water soluble fertilizers in wheat.	6 Jan. 23	PF	1	On	16	-	16	4	-	4
LPM	Importance of mineral mixture in animal health and production.	16 Jun. 2023	PF	1	On	17	-	17	3	-	3
Home Science	Importance of breast milk Scientific method of grain storage	05 April 2023	PF	1	On	-	18	18	-	02	02
		02 May 2023	PF	1	On	-	18	18	-	02	02
Horticulture	Control of fruit dropping in mango	28.04.2023	PF	1	On	15	-	15	5	-	5

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>III<sup>rd</sup> Quarter</b>											
Crop Production	Improved varieties of paddy and their production technique	02 June 2023	PF	1	On	20		20	4		4
	Farm Diversification and dimensions on resource conservation technologies	11 June 2023	PF	1	On	20		20	4		4
Soil Science	i. Use of water soluble fertilizer in paddy.	14 July 2023	PF	1	On	16	-	16	4	-	4
	Advantage of foliar spray of liquid Nano fertilizer in paddy.	25 August 23	PF	1	On	16	-	16	4	-	4
LPM	i Problems in animal breeding and their management.	21 July 2023	PF	1	On	17	-	17	3	-	3
	ii Calf feed and its management.	12 Aug. 2023	PF	1	On	17	-	17	3	-	3
Home Science	Water storage techniques at household level	03 July 2023	PF	1	On	-	18	18	-	02	02
	Preservation techniques at household level	20 Sep 2023	PF	1	On	-	18	18	-	02	02
Horticulture	Production technology of flower crops	10.10.2023	PF	1	On	16	-	16	4	-	4
	Rejuvenation of mango orchard	13.11.2023	PF	1	On	18	-	18	2	-	2
Plant protection	i. IPM in Paddy crop.	20.07.2023	PF	1	On	15	-	15	05	-	5
	ii. IDM in Torai.	31.07. 2023	PF	1	On	17	-	17	03	-	3
	iii Disease control in urdbeen.	01.08. 2023	PF	1	On	14	-	14	06	-	06
	Iv IDM in paddy crop	18.09.2023	PF	1	On	16	-	16	04	-	04

<b>IV<sup>th</sup> Quarter</b>											
Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
Crop Production	I. Multiple cropping Systems and Water Management	09 Nov 2023	PF	1	On	20		20	3		3
	II. Wheat production techniques under late sown condition	11 Nov.2023				20		20	3		3

Soil science	Advantage of Nadep and vermi compost for rabi	18 Oct. 23	PF	1	On	16	-	16	4	-	4
	Advantage of bio-farming in Rabi crops.	04 Nov. 23	PF	1	On	16	-	16	4	-	4
LPM	Mastitis in milking animals cause and prevention.	21 Dec. 2023	PF	1	On	17	-	17	3	-	3
Home Science	Meal Planning on iron rich food for pregnant women	10 Oct 2023	PF	1	On	-	18	18	-	02	02
	Effective use of kitchen waste at household level	07 Dec 2023	PF	1	On	-	18	18	-	02	02
Plant protection	i IDM in potato crop.	25 Dec. 2023	PF	1	On	15	-	15	5	-	5

**(ii) OFF Campus Training for Practicing Farmers and Farm Women**

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>I<sup>st</sup> Quarter</b>											
Crop Production	Importance of Integrated farming system model for small and marginal farmers	18Jan. 2023	PF	1	On	20	-	20	4	-	4
	Production Technology of wheat	24 Jan. 2023	PF	1	ON	20		20	4		4
Soil Science	I Foliar spray of liquid nano fertilizers in wheat	10-11Jan23	PF	2	Off	16	-	16	4	-	4
LPM	Balanced diet for milch animals	13 -14 Jan. 2023	PF	2	Off	17	-	17	3	-	3
Home Science	Motivation training on women empowerment	11-12 Jan 2023	PF	2	Off	-	18	18	-	02	02
	Poshak thali	28-29 Mar 2023	PF	2	Off	-	18	18	-	02	02
Horticulture	Crop regulation in guava fruit	14.02.2023	PF	2	Off	16	-	16	4	-	4
	Cultivation of aromatic and medicinal crops	26.03.2023	PF	2	Off	16	-	16	4	-	4
Plant protection	Management of yellow rust of wheat.	28 Feb 2023	PF	2	Off	18	-	18	02	-	02
	Management of ESB in Sugarcane.	27 March 2023	PF	2	Off	18	-	15	-	-	05

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>II<sup>nd</sup> Quarter</b>											
Crop Production	Diversification of crops and its importance	18 April.2023	PF	1	On	20	-	20	5	-	5
	Lazer land leveling for efficient use of water	24 May 2023	PF	1	On	20		20	5		5
Soil Science	Advantage of natural farming in paddy	26-27 April 23	PF	1	Off	16	-	16	4	-	4
LPM	Technique of urea mixing in wheat straw/paddy straw and animal nutrition.	20 - 21Apr.. 2023	PF	2	Off	17	-	17	3	-	3
	Whole year green fodder production.	15-16 May. 2023	PF	2	Off	17	-	17	3	-	3
Home Science	Post harvest management of locally available vegetables/fruits	12-13 Apr 2023	PF	2	Off	-	18	18	-	02	02
	Value addition of locally available seasonal fruit/vegetables	12-13 Apr 2023	PF	2	Off	-	18	18	-	02	02

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>III<sup>rd</sup> Quarter</b>											
Crop Production	Enhancing soil organic carbon and water holding capacity of soil by green manuring	18 June 2023	PF	1	On	20		20	4		4
	Nano urea a revolution in agriculture	24 June 2023	PF	1	On	20		20	4		4
Soil Science	iii. Use of ghan jeevamrit in paddy crop for natural farming.	13-14 July 23	PF	2	Off	16	-	16	4	-	4
	iv. Use of water soluble fertilizers in paddy crops.	10-11 Aug. 23	PF	2	Off	16	-	16	4	-	4
LPM	External parasite in animal and their control .	14 - 15Sept. 2023	PF	2	Off	17	-	17	3	-	3
Home Science	Preparation of protein rich diet for malnourished children	4-5 Aug 2023	PF	2	Off	-	18	18	-	02	02
Horticulture	Production technologies of banana and papaya	16.05.2023	PF	2	Off	17	-	17	3	-	3

	cultivation										
	Production techniques of cucurbits vegetable	12.07.2023	PF	2	Off	17	-	17	3	-	3
	Propagation techniques for fruit plants	14.08.2023	PF	2	Off	17	-	17	3	-	3
Plant protection	i. Management of top borer in sugarcane	26 June 2023	PF	2	Off	15	-	15	03	-	03
	ii Management of pokka boing in sugarcane	17 July 2023	PF	2	Off	18	-	18	02	-	02
	iii Management of YMV in urdbeen	21 July 2023	PF	2	Off	16	-	16	04	-	04
	iv Bio-control approach in in paddy crop.	07 Aug 2023	PF	2	Off	17	-	17	03	-	03

Subject	Title	Date	Clientel e	Durati on in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IV<sup>th</sup> Quarter</b>											
Crop Production	Summer ploughing an approach to reduce insect pest infestation and weed control method	18 Nov 2023	PF	1	On	20		20	4		4
	Solar powered irrigation systems for farmers	24 Nov 2023	PF	1	On	20		20	4		4
Soil Science	i. Use of Jeevamrit in wheat for natural farming	23-24 Oct. 23	PF PF	1 1	Off Off	16 16	-	16 16	4 4	-	4 4
	ii Advantage of liquid Nano fertilizers in wheat.	24-25 Nov. 23									
LPM	Identification and management of Lampi disease in cattle .	15 -16 Nov. 2023	PF	1	Off	17	-	17	3	-	3
	Clean milk production.	07-08 Dec.. 2023	PF	1	Off	17	-	17	3	-	3
Horticulture	Scientific cultivation of turmeric	21.12.2023	PF	2	Off	17	-	17	3	-	3
Home Science	Locally available foods & their nutritive content	18-19 Dec 2023	PF	2	Off	-	16	16	-	4	4
Plant protection	. Management of late blight in potato.	18 Dec 2023	PF	2	Off	17	-	17	3	-	3

## ON Campus: Vocational training programme for Rural Youth

Subject	Title	Date	Thrust Area	Client ele	Durat ion in days	Ven ue on	No. of Participants			Number of SC/ST		
							M	F	Tota l	M	F	Tot al
<b>I<sup>st</sup> Quarter</b>												
Crop production	Seed production Technique of wheat	23-28 jan.20 23	Promoting wheat seed production	RY	6	On	10	-	10	2	-	2
Soil Science	Nadep & Vermi compost production	13-18 Feb. 23	promotion of organic manure	RY	6	On/ Off	8	-	8	2	-	2
LPM	Poultry Farming	07-12Feb 2023	Poultry production	RY	6	On	8	-	8	2	-	2
Home Science	Block Printing	20-25 Feb 2023	Rural crafts	RY	6	On	-	8	8	-	2	2
Horticulture	Nursery raising of flower and vegetable crops	12 Jun- 23	Nursery management of horticultural crops	RY	6	On	8	-	8	2	-	2
Plant Protection	Technique of bee keeping	13-18 Feb. 2023		RY	6	On/ Off	8	-	8	2	-	2

<b>II<sup>nd</sup> Quarter</b>												
Crop Production	Integrated farming systems approach for continuous earning	22-27May 2023	Integrated farming	RY	6	On	10	-	10	2	-	2
LPM	Importance of natural farming	08-13 June- 2023	Vermi-Culture	RY	6	On	8	-	8	2	-	2
Home Science	Soap Making	15-20 May 2023	Small scale processing	RY	6	On	-	8	8	-	2	2
<b>III<sup>rd</sup> Quarter</b>												
Crop Production	Seed production technique of Paddy	02-07 july2023	Promotion of paddy seed production	RY	6	On	10		10	2	-	2
Soil Science	i Prepration ansd use of ghanjeevamrit in wheat for natural farming	10-15 July23	Production and use of organic inputs.	RY	6	On/Off	8	-	8	2	-	2
	ii Nadep & Vermi	11-16 Sept 23	promotion of organic manure	RY	6	On/Off	8	-	8	2	-	2



	compost production											
LPM	Goat rearing	12-17 Sep 2023	Goat rearing	RY		On/Off	8	-	8	2	-	2
Home Science	Basic Hand embroideries	17-22 July 2023	Tailoring and stitching	RY		On/Off	-	7	7	-	3	3
Horticulture	Nursery raising and maintenance of fruits plants	19 Oct-23	Nursery management of horticultural crops	RY		On/Off	8	-	8	2	-	2
Plant Protection	Mushroom production techniques.	11-15 Sep 2023		RY	6	On/Off	8	-	8	2	-	2

IV <sup>th</sup> Quarter												
Crop Production	Seed production Technique of wheat	23-28 Jan.2023	Promoting wheat seed production	RY	6	On	10	-	10	2	-	2
Soil Science	Preparation and use of ghanjeevamrit in wheat for natural farming	10-15 Oct. 23	Production and use of organic inputs	RY	6	On/Off	8	-	8	2	-	2
LPM	Preparation and use of jeevamrit in wheat for natural farming	10-15 Dec. 23	Production and use of organic inputs	RY	6	On/Off	8	-	8	2	-	2
Home Science	Decorative wall hanging	11-16 Dec 2023	Rural crafts	RY	6	On/Off	-	8	8	-	2	2

### (iii) Training Programme for Extension Functionaries

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total

I <sup>st</sup> Quarter												
Crop Production	Production technique of wheat + Mantha in intercropping	04 Feb. 2023	EF	1	On/off	10	-	10	2	--	2	
Soil Science	i Advantase of Nadep and Vermi compost in Sugarcane.	24Jan 2023	EF	1	On/Off	16	-	16	4	-	4	
LPM	Calf feed and its management	20 Feb 2023	EF	1	On/Off	16	-	16	4	-	4	
Horticulture	Techniques of nursery development of fruits plant	07.01.2023	EF	1	On/Off	16	-	16	4	-	4	
Plant Protection	i Management of wheat rust.	19 Feb 2023	EF	1	On/Off	18	-	18	02	-	2	
	ii Management of red rot in sugarcane.	27 Feb 2023	EF	1	On/Off	17	-	17	03	-	03	
Home Science	SHGs Bank Linkage Programme	10 Feb 2023	EF	1	On/Off	-	18	18	-	02	02	

<b>II<sup>nd</sup> Quarter</b>											
Crop Production	Role of Information and Communication Technology in agriculture	28 April 2023	EF	1	On/off	10	-	10	2	--	2
Soil Science	Use of bio-fertilizers in paddy	16 May 2023	EF		On/Off	16	-	4	4	-	4
LPM	Benefits of natural farming for human health	07, June 2023	EF		On/Off	16	-	4	4	-	4
Home Science	Income generating activities	05 June 2023	EF	1	On/Off	-	18	18	-	02	02
	Importance of sanitation and hygiene	24 May 2023	EF	1	On/Off	-	18	18	-	02	02
Horticulture	Orchard management practices for horticultural crops	23.05.2023	EF		On/Off	16	-	4	4	-	4
	Technical training on rose cultivation	21.09.2023	EF		On/Off	16	-	4	4	-	4

<b>III<sup>rd</sup> Quarter</b>											
Crop Production	High yielding varieties of Paddy and production technique	11 Aug 2023	EF	1	On/off	10	-	10	2	--	2
	Natural farming	18 Aug. 2023	EF	1	On/off	10	-	10	2	--	2
Soil Science	Importance of sulphur in oilseed	28 Aug. 2023	EF	1	On/Off	16	-	16	4	-	4
	Use of bio-fertilizers in sugarcane.	8 Sept. 2023	EF	1	On/Off	16	-	16	4	-	4
LPM	Production & preservation green fodder	21 July 2023	EF	1	On/Off	16	-	16	4	-	4
	Importance of natural farming	11 Sept .2023	EF	1	On/Off	16	-	16	4	-	4
Home Science	Knowledge on drudgery reduction concept	12 Sep 2023	EF	1	On/Off	-	18	18	-	02	02
	Prenatal care	21 Aug 2023	EF	1	On/Off	-	18	18	-	02	02
Horticulture	Technical training on rose cultivation	21.09.2023	EF	1	On/Off	16	-	16	4	-	4
Plant Protection	Management of pokka boing in Sugarcane.	05 July.2023	EF	1	On/Off	18	-	18	2	-	2
	Management of YMV in Urdbeen	21 July 2023	EF	1	On/Off	18	-	18	2	-	2
	Management of rice stem borer and leaf folder through pheromone trap in paddy crop.	24 Aug 2023	EF	1	On/Off	18	-	18	2	-	2

IV <sup>th</sup> Quarter											
Crop Production	FPOs to boost Income of small farmers	09 Dec 2023	EF	1	On/off	10	-	10	2	--	2
	Smart Farming future of agriculture	22 Dec 2023	EF	1	On/off	10	-	10	2	--	2
Soil Science	Use of water soluble fertilizers in wheat.	08 Dec. 2023	EF	1	On/Off	16	-	16	4	-	4
LPM	Importance of Mineral mixture	12 Sep 2023	EF	1	On/Off	18	-	18	2	-	2
	Sterility problem in milch animal	18 Nov 2023	EF	1	On/Off	18	-	18	2	-	2
Home Science	Importance of smokeless chulha	08 Nov 2023	EF	1	On/off	-	17	17	-	3	3
Horticulture	Scientific cultivation techniques for vegetables	15.12.2023	EF	1	On/Off	18	-	18	2	-	2
Plant Protection	IPM in rabi vegetables	1 Nov. 2023	EF	1	On/Off	9	-	9	1	-	1

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# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA MORADABAD-II**

# ACTION PLAN

(January, 2023 to December, 2023)

## KVK, Thakurdwara, Moradabad-II

### 1. GENERAL INFORMATION ABOUT THE KVK

#### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
Krishi Vigyan Kendra, Thakurdwara- Moradabad-II (U.P.)	Office	FAX	<a href="mailto:moradabadkvk2@gmail.com">moradabadkvk2@gmail.com</a>
	-	-	

#### 1.2 a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Sardar Vallabhbhai Patel University of Ag. & Tech, Meerut (U.P.)	0121- 2411511	0121- 2411540	deesvpuat2014@gmail.com

1.2.b. Status of KVK website : No

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :






1.2.d Status of ICT lab at your KVK : NIL

#### 1.2. Name of the Sr. Scientist & Head/ OIC with phone & mobile no.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Ravindra Kumar	-	9997904256	drksoil@gmail.com

1.4. Year of sanction: 2020

### 1.5. Staff Position (as on July 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grape pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Mobile no.	Email id	Please attach recent photograph
1.	Programme Coordinator	Dr. Ravindra Kumar	Assoc. Professor & Incharge	Soil Science	37400-67000	9000	152300	10.12.2003	Permanent	9997904256	<a href="mailto:drksoil@gmail.com">drksoil@gmail.com</a>	
2.	SMS/AP	Dr. Hasan Tanveer	SMS/AP	Plant Breeding	15600-39100		89900	23-06-2008	Permanent	8299198376	<a href="mailto:htshahi@yahoo.com">htshahi@yahoo.com</a>	
3.	SMS/T6	Sr. Deepak Kumar	SMS/T6	Plant Protection	15600-39000	5400	56100	02.07.2022	Permanent	9750062299	<a href="mailto:dk576564@gmail.com">dk576564@gmail.com</a>	
4.	SMS/T6	Dr. Rajesh Kumar	SMS/T6	Livestock Production	15600-39000	5400	56100	02.07.2022	Permanent	9461424999	<a href="mailto:rajeshkumarmahla46@gmail.com">rajeshkumarmahla46@gmail.com</a>	
5.	SMS/T6	Dr. Niranjan Singh	SMS/T6	Horticulture	15600-39000	5400	56100	02.07.2022	Permanent	9882416628	<a href="mailto:niranjansinghfruits@gmail.com">niranjansinghfruits@gmail.com</a>	
6.	Jr. Clerk	Sh. Ranveer Singh	Jr. Clerk	-	Column (4)	2400	25500	04.03.2021	Permanent	9756793379	<a href="mailto:ranveersingh711@gmail.com">ranveersingh711@gmail.com</a>	
7.	Attendant	Sh. Dinesh Kr.	Attendant	-	Column (1)	1800	22800	24.03.2017	Permanent	8104823754	<a href="mailto:dineshkumardk80512@gmail.com">dineshkumardk80512@gmail.com</a>	

**1.6. Total land with KVK (in ha) : 12.00 ha**

S. No.	Item	Area (ha)
1	Under Buildings	-
2.	Under Demonstration Units	-
3.	Under Crops	6.00
4.	Horticulture / Forest tree	2.82
5	Pond semi developed	2.95
5.	Others (Irrigation channels, Chuck Road, bunds etc.)	0.230
<b>Total</b>		<b>12.00</b>

**1.7. Infrastructural Development: NA**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage						Require d New	Needs renovatio n
			Complete			Incomplete				
			Comple tion Year	Plinth area (Sq.m)	Expenditu re (Rs.)	Startin g year	Plinth area (Sq.m)	Status of construc tion		
1.	Administrative Building	ICAR	Under Construc tion							

**B) Vehicles - NA**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	Required replacement
Bolero/ Jeep	2022	743150.00	6000	Good	
Tractor	Transferred from Ghaziabad (Old 2005 Model)			Working	

**C) Equipments & AV aids: NA**

**1.8 A) Details of SAC meetings to be conducted in the year:**

Sl. No.	Date
1. Scientific Advisory Committee	04-12-2020

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Major crops – Paddy, wheat, mustard, sugarcane, mentha, lentil, potato.
2	Crop rotation – Rice- sugarcane, Rice- wheat, urd-mustard-mentha, Jawar- mustard-mentha.
3	Agriculture + Hort. + Livestock
4	Agri. + Livestock
5	Landless + Livestock

### 2.2 Description of agro ecological situations (based on soil and topography)

S. No.	AES	Characteristics of A.E.S.	Major commodities	Farming system	Block
1	I- Central western plain zone of the district	-Loam and clay loam with high Fertility - medium Rainfall	Rice, wheat, mentha, sugarcane, chili, cauliflower, cabbage, mango, guava, buffalo, cows	Paddy, wheat, sugarcane+ Poplar+ A.H. (Cow, buffalo)	Thakurdwara, Dilari, Moradabad, Bhagatpur Tanda and Chhajlait

### 2.3 Soil types

Sl. No	Soil type	Characteristics	Area (ha )
1	Clay loam	Clay loam	81930
2	Sandy soil	Sandy soil	25537
3	Sandy loam	Sandy loam	84518
4	Loam	Loam	126433
<b>Total</b>			317919

### 2.4. Area, Production and Productivity of major crops cultivated in the district (2019-20)

S. No	Crop	Area (ha)	Production (MT)	Productivity (Qtl /ha)
A	FIELD CROPS INCLUDING OIL SEEDS AND PULSES			
1.	Wheat	1,21959	37252	30.54
2.	Lentil	621	560	9.02
3.	Mustard /Torla	2256	2772	13.0
4.	Paddy (Rice)	94947	22652	23.86
5.	Bajra	31231	38.3	12.27
6.	Urd	3867	3046	14.73
7.	Sugarcane	46496	2951380	634.76
B	VEGETABLES			
1.	Potato	1071	24036	230.03



## 2.5 Weather data (rainfall) Dist.Moradabad

S. No.	Month	2019	2020
1	Jan	26.24	34.46
2	Feb	54.19	15.15
3	March	45.66	56.38
4	April	5.50	25.70
5	May	5.53	34.65
6	June	9.73	194.78
7	July	333.83	367.50
8	August	90.70	160.70
9	September	108.35	42.73
10	October	29.83	-
11	November	0.00	-
12	December	37.68	-
	Total rainfall	747.24	932.05
	Average rainfall	62.27	77.67

## 2.6 Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred	11824	Data not available	Data not available
Indigenous	49989		
Buffalo	327097		
Cow	50277		
Sheep			
Crossbred	220		
Indigenous	5667		
Goats	168248		
Pigs	-		
Crossbred	3165		
Indigenous	27159		
Rabbits	-		
Poultry 143957			
Hens	-		
Desi	-		
Improved	-		
Ducks	-		
Turkey and others	-		
Fish	172	5051	29.36

2.7 Details of operation area/villages

S. No.	Taluk/Village	Name of block	Major crops & enterprises	Major problem identified	Identified thrust area
1	Noorpur	Thakurdwara	Paddy, Wheat,	Low Productivity of paddy, wheat, mustard, urd etc.	Diversification
	Jalalpur		Sugarcane, Wheat, paddy	The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely.	in agriculture
2	Khatapur	Chhajlait	Paddy, Wheat,	Low	Diversification
			Sugarcane Mentha, Mustard, Poplar, Dairy	Productivity of paddy, wheat, mustard, urd etc.  The main reason of low yield is due to lack of high yielding varieties, imbalance use of fertilizer & less awareness of insect and disease control timely. Low yield of paddy, wheat, mentha & mustard	in agriculture Lack of high yielding varieties. Less availability of plant protection measures. Heavy infestation of weeds.
3	Sahasपुर	Thakurdwara	Paddy, Wheat, Sugarcane Mentha, Mustard, Dairy, Chilli, bottle guard, colocacia	Poor milk production and infertility in animals. Lack of knowledge of quality planting material and production technology in horticultural crops. Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture. Use of Improved variety and IPM, ICM. Heavy infestation of weeds.
4	Khaikhera Naharwala	Thakurdwara	Paddy, Wheat, Sugarcane Mentha, Mustard, Poplar, Dairy	Use of local varieties of different crops by the farmers.  Pest problems  Low yield of paddy, wheat, mentha & mustard	Diversification in Agriculture. Use of Improved variety and IPM, ICM. Heavy infestation of weeds.
5	Rosanpur	Bhagatpur Tanda	Paddy, Wheat, Sugarcane Mentha, Mustard, Dairy, Poplar, Chilli, Onion, Gartic, Cucurbits.	Lack of knowledge of improved varieties of different crops. - Pest problems - Lack of knowledge of inter cropping - Crop management & nutrient management. - Disease & insect control of cereals and vegetable crops. - Poor milk production and infertility in animals	- Diversification in agriculture. - Use of improved varieties. - Inter cropping technique. - Crop management. - Weed control - Unawareness of diseases and insect control.

## 2.8 Priority/ Thrust Areas

S.N.	Crop/ Enterprise	Thrust area
1.	Rice/Wheat	Integrated plant nutrient management in rice -wheat cropping.
2.	Rice/Wheat	Integrated weed management in rice -wheat cropping
3.	Pulses	Enhancing the area under Kharif & Rabi pulses
4.	Oil seeds	Enhancing the area under Kharif & Rabi oil seeds.
5.	Cereals/Pulses/Oil seeds	IPM incrops
6.	Cereals/Pulses/Oil seeds	Promotion of new released varieties.
7.	Seed production	Promotion of seed production in different crops.
8.	Mango	High density planting of new varieties, nutrient management, rejuvenation of old orchards and other orchard management practices
9.	Guava	High density planting of new varieties, nutrient management, crop regulation and other orchard management practices
10	Banana	High density plantation, water and nutrient management and other orchard management practices
11	Vegetables	Promotion of high quality and organic farming in vegetables.
12	Floriculture	Promotion of income generating crops.
13	Nursery Production	Propagation techniques for fruit, vegetables and flowers plants
14	Bee-keeping	Popularization of Bee-keeping
15	Vermi compost	Popularization of Vermi composting
16	Livestock	Management and balanced feeding of farm animals
17	Livestock	Supplementation of mineral mixture and salt in feed
18	Livestock	Green fodder production
19	Livestock	Control of Animal Disease and abdominal worms
20	Poultry	Backyard poultry farming

## 4. TECHNICAL PROGRAMME

### 3 A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
10	50	58.4	201

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
121	1990	400	4000

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
200	20000	-	1200	3000

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
-	-	-	-

### 3. B. Abstract of interventions to be undertaken

Sr. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Use of old variety	Mustard	Low yield	- Use of newly released HYV	-	Identification and Characteristic of Newly release variety	Identification and Characteristic of Newly release variety	Field day	Seed
2.	No use of HYV timely in late sown condition	Wheat	Low yield	Evaluation of new wheat varieties under late sown condition	-	- Identification and Characteristic of HVY - Weed control techniques	Identification and Characteristic	Field day and Gosthi	Seed, and weedicide
3.	Incidence of insect ,pest , diseases , weeds and non adoption of recommended control measures as well as IPM	Paddy	Low yield	-	Use of pheromones trapes, trichoderma and pseudomonas	- IPM in Paddy Management of stem borer and BLB in paddy	IPM in Paddy	Field day and Gosthi	Pheromones trapes , trichoderma and pseudomonas
4.	No use of New variety	Paddy	Low yield	-	Use of new variety	- Weed control - Use of improve varieties	Use of improve varieties	Field day and Gosthi	Seed and Weedicide
5.	Use of imbalance fertilizer	Paddy	Low Yield	-	Effect of foliar application of water soluble fertilizer 18:18:18	-Fertilizer management through soluble fertilizer in paddy	-	Field day	Soluble fertilizer
6.	Use of imbalance fertilizer and old variety	Wheat	Low Yield	-	Effect of foliar application of water soluble fertilizer 18:18:18	-Fertilizer management through soluble fertilizer in Wheat	-	Field day	Soluble fertilizer
7.	Use of imbalance fertilizer and old variety	Potato	Low Yield	-	Effect of foliar application of water soluble fertilizer 18:18:18	-Fertilizer management through soluble fertilizer in potato	-	Field day	Soluble fertilizer

8.	IDM	Field pea	Low yield	Biological management of root rot of field pea	-	-	-	Field day	Trichoderma and pseudomonas
9.	Use of old variety	Urd	Low yield	-	- Use of HYV	- Cultivation of Urd	-	Field day	HYV seed, Fertilizer
10.	No use of Dewormer and liver tonic	Buffalo calf	High mortality rates in buffalo calf	-	- Control of mortality of buffalo calf through use of wormicide and liver tonic	- Disease management	-	-	Dewormer and liver tonic
11.	Disease management	Buffalo	Repeat breeding	Assessment of clinical and non clinical remedies in controlling repeat breeding	-	Disease management	-	-	Concentrate, Mineral mixture, Receptal inj.
12.	Backyard poultry farming	Poultry	Lack of pure Breed and poor feeding management	Improvement of socio-economic status and malnutrition of farmers through backyard poultry farming	-	- To improve body weight by breed and management	-	-	Chick and Feed
13.	Drudgery reduction	Home science	Drudgery	Drudgery reduction in milking by the use of revolving stool	-	-	Importance and benefit of revolving stool		Revolving stool
14.	Malnutrition	Nutritional garden	Malnutrition	-	Enhancing household food security through nutritional garden	-	Importance of nutritional garden		Seeds Sapling etc.
15.	Drudgery reduction	Home science	Drudgery	-	Drudgery reduction by use of maize sheller	-	Importance and benefit of maize Sheller	-	Maize Sheller
16.	Low nutrient in fodder straw	Urea treatment of paddy / wheat straw	Low milk yield due to imbalance nutrient	-	Feeding of urea treated straw in buffalo	-	-	Goshti	Urea

17.	Green fodder production	Barseem	Low availability of green fodder	-	Green fodder production	Fodder production throughout the year	-	Gosthi	Seed
18.	No use of HYV	Chilli	Low yield	-	Use of HYV	-	-	Field day and Gosthi	Seed
19.	No use of HYV	Cauliflower	Low yield	-	Use of HYV	-	-	Field day and Gosthi	Seed
20.	No use of HYV	Brinjal	Low yield	-	Use of HYV	-	-	Field day and Gosthi	Seed
21.	No use of HYV	Sponge Gourd	Low yield	-	Use of HYV	Production technique of cucurbits vegetable	-	Field day and Gosthi	Seed
22.	No use of HYV	Bottle Gourd	Low yield	-	Use of HYV	Production technique of cucurbits vegetable	-	Field day and Gosthi	Seed
23.	Imbalance and improper use of major and micro nutrients	Mango	Low yield	Quantitative and qualitative loss in mango	-	-Care of mango orchard - Control of flower dropping in fruits	-	Field day and Gosthi	Macro and Micro nutrients
24.	Use of local variety	Garden pea	Low yield	Screening of improved variety of vegetable pea	-	-	-	Field day and Gosthi	Seed

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	01	01	-	01	01	-	-	-	-	04
Integrated Nutrient Management	02	-	-	-	-	01	-	-	-	03
Drudgery reduction				01						01
Value addition										
Integrated Pest Management	01	-	-	01	-	-	-	-	-	02
<b>TOTAL</b>	<b>04</b>	<b>01</b>	<b>-</b>	<b>03</b>	<b>01</b>	<b>01</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>10</b>

#### A.2. Abstract on the number of technologies to be refined in respect of crops: -

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation	01	01								02
<b>TOTAL</b>										

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Nutrition Management	01							01
Disease Management	01	-	-	-	-	-		01
<b>TOTAL</b>	<b>02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>02</b>

### B. Details of On Farm Trial (Based on soil test analysis): Plant Breeding

#### OFT- 1 VARIETAL EVALUATION Paddy crop (Season - Kharif 2023)

Particulars	Contents
<b>Title</b>	Assessment of high yielding variety of paddy under Rice-Wheat system.
<b>Problem diagnosed</b>	Low yield of paddy due to old variety.
<b>Micro farming situation</b>	Irrigated condition
<b>Details of technology identified for solution</b>	T <sub>1</sub> : common variety/farmers' practice T <sub>2</sub> : P R-126/ P R-124
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Seed of P R-126 variety @ 30 kg/ha.
<b>Production system</b>	Rice-wheat
<b>Source of technology</b>	I.A.R.I., New Delhi
<b>Total Cost</b>	Rs. 3500/- approx.
<b>Observation to be recorded</b>	Plant height, Spike length, Grain yield q/ha, Economics
<b>Name of Scientist</b>	Dr. Hasan Tanveer (Plant Breeding)



## OFT-2 VARIETAL EVALUATION

### Wheat crop (Season - Rabi 2023-24)

Particulars	Contents
Title	Assessment of improved variety of wheat under late sown condition.
Problem diagnosed	Low yield of late sown wheat due to old variety.
Micro farming situation	Irrigated condition
Details of technology identified for solution	T <sub>1</sub> : PBW-373/common variety (farmers' practice) T <sub>2</sub> : DBW-90/Other high yielding variety
No. of farmers	05
Replications	05
Critical inputs	Seed of DBW-90 @ 120 kg/ha.
Production system	Rice-wheat
Source of technology	PBW-752 (PAU, Ludhiana)
Total Cost	Rs. 5000/- approx.
Observation to be recorded	Plant height, spike length, Grain yield q/ha, Economics
Name of Scientist	Dr. Hasan Tanveer (Plant Breeding)

### Livestock Production and Management:

#### OFT: 3

- Crop/Enterprise:** Buffalo
- Title of on-farm trial:** Effect of Mineral mixture and Receptal on repeat breeding in buffalo
- Problem diagnosed:** No supplementation of mineral mixture feed
- Farming situation:** - Mixed farming
- Production system and thematic area:** Mixed farming and disease management
- Farmers' Practices:** Conventional method (use of choker and common salt)
- Details of technologies selected for assessment/refinement-**
  - T<sub>1</sub>: Farmers Practice – use of choker and common salt
  - T<sub>2</sub>: Mineral mixture @ 50 g/Day/Animal up to 60 days + Inj Receptal 5 ml (72 -96 hrs. Before AI)
- No. of farmers :** 05 ( one animal in each farmer)
- Critical input:**
  - Mineral Mixture 3kg/animal =15kg x Rs 160 = 2400.00
  - Inj Receptal 5 ml = 30ml x Rs 650/10 ml = 1950.00**Total cost of OFT: Rs. 4350.00**
- Source of technology:** IVRI Bareilly
- Performance indicators**
  - Technical**
    - Induction of estrus
    - No. of animal conceive / pregnant
  - Social:**
    - Farmer's reactions

#### OFT: 4

- Crop/Enterprise:** Poultry
- Title of on-farm trial:** Improvement of socio-economic status and malnutrition of farmers through backyard poultry farming
- Problem diagnosed:** Lack of pure Breed and poor feeding management.
- Farming situation:** - Mixed farming

5. **Production system and thematic area:** Mixed farming and Backyard poultry farming
6. **Farmers' Practices:** conventional method
7. **Details of technologies selected for assessment/refinement:**
  - i. T<sub>1</sub>: Farmers Practice – Rearing of non-descript breed without adopting feeding management
  - ii. T<sub>2</sub>: Rearing of pure breed with poultry feed and farm waste
8. **No. of farmers:** 05 ( Twenty birds in each farmer)
9. **Critical input:** Twenty birds @ 40 rupees/100x45 =4500 rupees and 20kg feed to each farmer @ 4000/Quintol=4000, Total = 4500+4000 = 8500rupees
10. **Source of technology:** IVRI Bareilly
11. **Total cost of OFT:** Rs.8000.00
  - 1 **Performance indicators**
    - I. **Technical**
      - Calculate body weight
      - Dressing percentage
    - II. **Economic:**
      - Increase farmer wealth
    - III. **Social:**
      - Farmer's reactions

## Soil Science

### OFT: 5

1. **Crop/Enterprise:** Mustard
2. **Title of on-farm trial :** Assessment of high yielding variety of mustard
3. **Problem diagnosed:** Low yield due to use of old variety and no use of Biofertilizer (Azotobacter + PSB) in mustard.
4. **Farming situation:** Irrigated
5. **Production system and thematic area:** Rice-Wheat
6. **Farmers' Practice:** Local variety and no use of biofertilizers
7. **Details of technologies selected for assessment/refinement**
  - T<sub>1</sub> – (Farmers practice) old variety
  - T<sub>2</sub> – PPS-1 + Biofertilizer( Azotobacter + PSB)
  - Replication – 05**
8. **Source of technology:** GBPUAT., Pantnagar
9. **No. of farmers:** 05
10. **Critical input:**
  - Seed PPS-1, 6 kg/ha @ 150 = 900.00
  - Sulphur Bentonite 50 Kg @ Rs 270/-Kg = 13500.00 Rs.
  - Total cost of inputs = Rs.14400.00**
11. **Performance indicators**
  - I. **Technical**
    - a. Growth of crop
    - d. Yield (q/ha)
  - II. **Economic:**
    - a. C:B ratio
  - III. **Social:**
    - a. Farmer's reactions

### OFT: 6

1. **Crop/Enterprise:** Wheat
2. **Title of on-farm trial:** Assessment of high yielding variety of wheat.
12. **Problem diagnosed :** Low yield due to use of old variety and no use of Biofertilizer ( Azotobacter + PSB) in wheat.
3. **Farming situation:** Irrigated
4. **Production system and thematic area:** Rice-Wheat

5. **Farmers' Practice:** Local variety and no use biofertilizers
6. **Details of technologies selected for assessment/refinement**  
 T<sub>1</sub> – (Farmers practice) old variety  
 T<sub>2</sub> – DBW-187 + Biofertilizer (Azotobacter + PSB)  
**Replication** – 05
7. **Source of technology:** DWBR (Karnal)
8. **No. of farmers:** 05
9. **Critical input:**
  - DBW-187, 200 kg @ 45kg = 9000.00
  - Biofertilizer ( Azotobacter + PSB) 5.0 L @ Rs.200 / Litre = 1000.00 Rs.**Total cost of inputs = Rs.10000.00**
11. **Performance indicators**
  - I. Technical**
    - a. Growth of crop
    - d. Yield (q/ha)
  - II. Economic:**
    - a. C:B ratio
  - IV. Social:**
    - a. Farmer's reactions

**Home Science:**

**OFT: 7**

1. **Crop/Enterprise:** Home science
2. **Title of on-farm trial:** Assessment of drudgery of farm women involved in milking of animals
3. **Problem diagnosed:** Low efficiency and high drudgery of farm women during milking of animals
4. **Farming situation:** - Mix farming
5. **Production system and thematic area:** Drudgery reduction
6. **Farmers' Practices:** Use of peedha
7. **Details of technologies selected for assessment/refinement:**
  - T<sub>1</sub>: Farmers Practice – use of peedha
  - T<sub>2</sub>: Revolving stool
8. **Source of technology:** G.B.P.U.A. & T., Pantnagar
9. **No. of farmers:** 05
10. **Critical input:** Revolving stool.  
**Cost of each intervention 1000.00**  
**Total cost of OFT: 1000 x5 =5000.00**
11. **Performance indicators**
  - I. Technical :**
    - I. Acceptability
    - II. Time saved
    - III. Economics
  - II. Economics**
    - I. Physiological cost of work
  - III. Social:**
    - a. Farmer's reactions

**Plant Protection:**

**OFT: 8**

1. **Crop/Enterprise:** Paddy
2. **Title of on-farm trial:** yield loss in paddy crop due to stem borer
3. **Problem diagnosed :** Imbalance and improper use of plant protection measures
4. **Farming situation:** Irrigated
5. **Production system and thematic area:** Rice Wheat production system and Integrated Pest Management
6. **Farmers' Practice:** Use of non target pesticides, conventional method

**7. Details of technologies selected for assessment/refinement**

- i. T<sub>1</sub> – Farmers practice – Use of phorate 10G @ 25 kg/ha.
- ii. T<sub>2</sub> – Use of Cartap hydrochloride 4G @ 20kg/ha.

**Plot size :** 0.4 ha

**Replication –** 05

**8. Source of technology:** SVPDAT Meerut

**9. No. of farmers:** 05

**10. Critical input:**

- Cartap 13kg @Rs. 90 = 1170 Rs.  
**Total cost of inputs = Rs. 1170.00**

**11. Performance indicators**

**I. Technical**

- a. Insect infestation
- b. Yield (q/ha)

**II. Economic:**

- a. C:B ratio

**V. Social:**

- a. Farmer's reactions

**OFT: 9**

**1. Crop/Enterprise :** Tomato (Selection 22/ Nmdhari)

**2. Title of on-farm trial :** Assessment of technology against tomato fruit borer (*Helicoverpa armigera*).

**3. Problem diagnosed :** Qualitative and quantitative loss of tomato fruits.

**4. Farming situation :** Irrigated

**5. Production system and thematic area:** Integrated Pest Management

**6. Farmers' Practices:** T1- Farmer practices (Foliar spray of cypermethmin@ 1250 ml/ha )

**7. Details of technologies selected for assessment/refinement :** T2 – Amamectin benzoate 1.5% + Fipronil 3.5% SC @ 625 ml/ha . 2 foliar spray at 20 days interval (after flowering)

**8. T<sub>1</sub> – Farmers practice –** T1- Farmer practices (Foliar spray of cypermethmin@ 1250 ml/ha )

T<sub>2</sub> – Amamectin benzoate 1.5% + Fipronil 3.5% SC @ 625 ml/ha, foliar spray at 20 days interval (after flowering)

**Plot size -** 0.40 ha/Repl.

**Replication –** 05

**8. Source of technology:** NCIPM New Delhi

**9. No. of farmers:** 05

**10. Critical input:**

- Amamectin benzoate 1.5% + Fipronil 3.5% 3.5 kg @ Rs.2500.00/kg = Rs 8750.00

**Total cost of inputs = Rs. 8750.00**

**11. Performance indicators**

**I. Technical**

- a. disease incidence
- b. Yield (q/ha)

**II. Economic:**

- a. C:B ratio

**II. Social:**

- a. Farmer's reactions

**Horticulture**

**OFT: 10**

**1) Crop/Enterprise :** Guava

**2) Title of on-farm trial :** Quantitative and qualitative loss in Guava

**3) Problem diagnosed:** Imbalance and improper use of major and micro nutrients

**4) Farming situation :** Irrigated

**5) Production system and thematic area:** Fruit production system and integrated nutrient management

- 6) **Farmers' Practices:** Conventional method
- 7) **Details of technologies selected for assessment/refinement:**  
 T<sub>1</sub> – Farmer's Practice- Imbalance and improper use of fertilizer and micro Nutrient  
 T<sub>2</sub>–Use of N.P.K @ (360 gm N<sub>2</sub>:180 gm P<sub>2</sub>O<sub>5</sub>:360 gm K<sub>20</sub>) / Tree
- 8) **Plot Size :** Total no of tree 25 no.@ 5 tree/Replication
- 9) **No. of farmers:** 05
- 10) **Critical input:**
- |   |   |                |
|---|---|----------------|
| N.P.K 25 Tree @ 900 gm / tree@rs40/Tree | = | 1000.00        |
| <b>Total cost</b>                       | = | <b>1000.00</b> |
- 11) **Performance indicators**
- I. Technical**
- No. of fruits per plants
  - Yield (q/ha)
- II. Economic:**
- Additional return
  - C:B ratio
- III. Social**
- Farmer's reaction

**OFT: 11**

- Crop/Enterprise :** Garden pea
  - Title of on-farm trial :** Evaluation of improved varieties of vegetable pea
  - Problem diagnosed:** Local varieties Arkil
  - Farming situation :** Irrigated
  - Production system and thematic area:** Rice - Pea –Rice
  - Farmers' Practices:** Sowing of old variety
  - Details of technologies selected for assessment/refinement:**  
 T<sub>1</sub> – Old varieties - Arkil .  
 T<sub>2</sub>– Pant Sabzi mater -3
  - Plot Size :** 500 m<sup>2</sup>/Treatment
  - No. of farmers:** 05
  - Critical input:**

Seed : 40 kg@ 120 Rs/kg	=	4800.00
<b>Total cost</b>	=	<b>4800.00</b>

  - Performance indicators**
- I. Technical**
- No. of pods per plants
  - pests severity
  - Yield (q/ha)
- II. Economic:**
- Additional return
  - C:B ratio
- III. Social**
- Farmer's reactions

### 3.2 Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis)

#### 1. CFLD

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers	Parameters identified
1	Moong		ICM	HYV Seed@5kg/ha, Mancozeb+carbendazim@1.25kg/ha, Quinolphose@2.5ltr/ha, Tricoderma@5kg/ha	Seed,Mancozeb+carbendazim, Quinolphose, Tricoderma	Zaid 2023	10.00	25	Yield, CB Ratio, Thousand Seed weight
2	Urd		ICM	HYV Seed@15kg/ha, Mancozeb+carbendazim@1.25kg/ha, Quinolphose@2.5ltr/ha, Tricoderma@5kg/ha	Seed, Mancozeb+c arbendazim, Quinolphose, Tricoderma	Kharif 2023	10.00	25	Yield, CB Ratio, Thousand Seed weight
3	Mustard		ICM	HYV Seed@5kg/ha, Sulphur W.P. @2.5kg/ha, Imidacloprid@0.25ltr/ha, Tricoderma	Seed, Sulphur W.P., Imidacloprid, Tricoderma	Rabi 2023-24	10.00	25	Yield, CB Ratio, No. of Grains/pod
4	Lentil		ICM	HYV Seed@30kg/ha, Mancozeb+carbendazim@1.25kg/ha, Imidacloprid@0.25ltr/ha, Tricoderma@5kg/ha	Seed & Mancozeb+ Carbendazim, Imidacloprid, Tricoderma	Rabi 2023-24	10.00	25	Yield, CB Ratio, No. of Grains/pod
<b>Total</b>							<b>40</b>	<b>100</b>	

**2. FLD on crops other than Oil seed and Pulses (Based on soil test analysis) –**

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers / demon	Parameters identified
1.	<b>Plant Breeding</b> Paddy	PR-124/PR-121	Varietal Evaluation	Promotion of high yielding variety PR-124 of rice	PR- 124/PR- 121 Seed 60 kg  Total cost : Rs. 15000/-	Kharif 2023	2.0	10	- No. of grains/spike - 1000 grain weight (g) - Grain yield q/ha. - Economics
2	Paddy	Pusa Basmati 1637/1718	Varietal Evaluation	Promotion of high yielding variety Pusa Basmati 1637/1718 of rice under Rice –wheat system	Pusa Basmati 1637/1718Seed 50 kg  Total cost : Rs. 15000/-	Kharif 2023	2.0	10	- No. of grains/spike - 1000 grain weight (g) - Grain yield q/ha. - Economics
3	Wheat	HPBW - 1/ DBW – 222	Varietal Evaluation	To demonstrate the yield potential of new variety under timely sown condition	Variety -DBW – 222/ Other high yielding variety Seed 200 Kg Total Rs. 15000/-approx.	Rabi 2023-24	2.0	10	- No. of grains/spike - 1000 grain weight (g) - Grain yield q/ha. - Economics
4	Wheat	DBW - 173	Varietal Evaluation	To demonstrate the late sown variety of wheat	Variety : DBW173/Other high yielding variety Seed 240 Kg Total Rs : 18000 /- approx.	Rabi 2022-24	2.0	10	- No. of grains/spik - 1000 grain weight (g) - Grain yield q/ha. - Economics
5	<b>Soil Science</b> Paddy	PR-113	INM	Effect of foliar application of Nano Urea	Nano Urea	Kharif-2022	8.0	20	-Yield -No of Pl/sqm C:B
6	Wheat	HD-2967	INM	Effect of foliar application of Nano Urea	of Nano Urea	Rabi 2023-24	8.0	20	-Yield -No of Pl/sqm C:B
7	Potato	Chipsona -1 or As per Availability	INM	Effect of foliar application of water soluble fertilizer	Potassium Sulphate (0:0:50)	Rabi 2023-24	8.0	20	-Yield -No of Pl/sqm C:B
8	<b>Plant Protection</b> Paddy	Pusa 1121 or As per Availability	IDM	Management of sheath blight through chemical	Propiconazole(Tilt)25% EC@750ml/ha	Kharif -2023	4.0	10	-Yield - severity of disease -C:B ratio
9	Paddy	Pusa 1121 or As per Availability	IPM	Management of brown plant hopper through chemical	Foliar spray of Pymetrozine 50 % WG @ 300 gm/ha	Kharif -2023	4.0	10	-Yield - severity of disease -C:B ratio
10.	Potato	Chipsona-1 or As per Availability	IDM	Management of late blight disease through chemical	Foliar spray of cymoxanil 8 % and Mancozeb 64% (curzet) @ 1.5 kg/ha	Rabi 2023-24	4.0	10	-Yield - severity of disease -C:B ratio

11	Tomato	Pusa rubi or as per availability	IPM	Chemical control of fruit borer insect	Foliar spray of Indoxacarb (Avaunt) 14.5% SC@ 700ml/ha	Rabi 2023-24	2.0	10	-Yield - Insect infestation -C:B ratio
12	Wheat	DBW 187 or As per Availability	IDM	Management of yellow rust through chemical	Mancozeb 75 % WP Or Zineb (Dithane-Z 78)@ 2.5 kg/ha	Rabi- 2023-24	4.0	10	-Yield - Insect infestation -C:B ratio
13	Vegetable Pea	PSM -3 or As per Availability	IDM	Management of Powdery mildew	Foliar spray of Karathane 48 % EC @450ml/ha	Rabi- 2023-24	2.0	10	-Yield -Insect infestation C:B ratio
14	Sugarcane	Cos - 238	IDM	Bio-pesticides against white grub Holotrichia consanguinea (Blanch) in sugarcane	Mearhizium anisopliae (4 x 10 <sup>9</sup> cfu) @2.5Kg/ha	Rabi- 2023-24	4.0	10	-Yield -Insect infestation C:B ratio
15	<b>Horticulture</b> Radish	Pusa Chetki	Varietal Evaluation	Use of HYV Seed @ 9-12 kg/ha	Seed 6 kg	Kharif 2023	0.5	05	-Yield q/ha -Length, weight, color
16	Cucumber	Kashi Udai	Varietal Evaluation	Use of Improved variety Seed @2.5-3 kg/ha	Seed 2 kg	Kharif 2023	0.5	05	-Yield q/ha -No. of fruits
17	Okra	Arka Abhaya, Azad Kranti	Varietal Evaluation	Use of HYV Seed @ 12-14 kg/ha	Seed 6 kg	Kharif 2023	0.5	05	-Yield q/ha -No. of fruits/plant
18	Brinjal	PS-9, PS-5	Varietal Evaluation	Use of HYV Seed @ 400-500 g/ha	Seed 250g	Rabi 2023-24	0.5	05	-Yield q/ha -No. of fruits/plant
19	Chilli	Pant C-1 Pusa Jawala	Varietal Evaluation	Use of Improved variety Seed @ 1 kg/ha	Seed 100g	Rabi 2023-24	0.5	05	-Yield q/ha -No. of fruits/plant
20	Cauliflower	Pusa Hybrid-2	Varietal Evaluation	Use of HYV Seed @ 400-500 g/ha	Seed 200g	Rabi 2023-24	0.5	05	-Yield q/ha -No. of fruits/plant
21	Banana		Ripening Technology	Value Addition	Ethylene	Karif-2023	0.5	05	-Keeping quality - net income
<b>Livestock Enterprises</b>									
22	Barseem	Variety: BL-10 or BL-42	Feed and fodder	Use of Improved Variety seed @ 30 kg/ha	6 kg Seed	Rabi 2023-24	0.4	10	-Yield q/ha
23	<b>Home Science</b> Seasonal Vegetable	-	House hold food security	Nutritional garden	Seeds	Khartif-2023 Rabi 2023-24	0.2	10	- Net income - Availability / person



## Sponsored Demonstration

### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	12	January to December, 2023	884
2	Farmers Training	11	January to December, 2023	400
3	Media coverage	15	January to December, 2023	Mass
4	Training for extension functionaries	2	January to December, 2023	50

### C. Details of FLD on Enterprises

#### (i) Farm Implements

#### (ii) Livestock Enterprises

Enterprise	Breed	No. of farmers/ Area	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Livestock	Buffalo-calf	30	60	1. Dewormer (Albendazole+Ivermectin) syrup (30 ml)- 60 vial 2. Livol powder 100 gm: ( 60 pkt)	Mortality rate
Livestock (Feeding of Urea treated paddy/Wheat Straw)	Buffalo	05	10	Urea 40kg for 10 qt. paddy/ Wheat straw	- Concentrate saving (kg & Rs) - Milk yield

3.3 Training (Including the sponsored and FLD training programmes):

A) On Campus)

Thematic area	No. of courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Plant Breeding</b>								
Varietal Evaluation	04	34	0	34	6	0	6	40
Improved Varieties	04	34	0	34	6	0	6	40
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
<b>b) Fruits</b>								
Cultivation of Fruit Crops	01	15	0	15	05	0	05	20
Management of nursery/young plants/orchards	01	15	0	15	05	0	05	20
Rejuvenation of old orchards	01	15	0	15	05	0	05	20
<b>c) Ornamental Plants</b>								
Propagation and management of nursery plants	01	15	0	15	05	0	05	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	15	0	15	05	0	05	20
Soil and Water Conservation	01	15	0	15	05	0	05	20
Integrated Nutrient Management	02	30	0	30	10	0	10	40
Nutrient Use Efficiency	01	15	0	15	05	0	05	20
<b>IV Livestock Production and Management</b>								
Dairy Management	01	15	0	15	05	0	05	20
Disease Management	04	60	0	60	20	0	20	80
Feed Management	01	15	0	15	05	0	05	20
<b>V Home Science/Women empowerment</b>								
Design and development of low/minimum cost diet	01	0	15	15	0	05	05	20
Value addition	03	0	45	45	0	15	15	60
Rural Crafts	01	0	15	15	0	05	05	20
<b>VII Plant Protection</b>								
Integrated Pest Management	02	30	0	30	10	0	10	40
Integrated Disease Management	02	30	0	30	10	0	10	40
<b>TOTAL</b>	<b>32</b>	<b>353</b>	<b>75</b>	<b>428</b>	<b>107</b>	<b>25</b>	<b>132</b>	<b>560</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08	0	08	02	0	02	10
Seed production	02	16	0	16	04	0	4	20
Production of organic inputs	02	16	0	16	04	0	4	20
Nursery Management of Horticulture crops	02	16	0	16	04	0	4	20
Dairying	01	08	0	08	02	0	02	10
Sheep and goat rearing	01	08	0	08	02	0	02	10
Poultry production	01	08	0	08	02	0	02	10
Post Harvest Technology	01	08	0	08	02	0	02	10
Tailoring and Stitching	01	0	08	02	0	02	02	10
Rural Crafts	02	0	16	16	0	4	4	20
<b>TOTAL</b>	<b>14</b>	<b>88</b>	<b>24</b>	<b>102</b>	<b>22</b>	<b>6</b>	<b>28</b>	<b>140</b>
<b>(C) Extension Personnel</b>								
Seed production	8	56	0	56	24	0	24	80
Integrated Pest Management	3	24	0	24	6	0	6	30
Integrated Nutrient management	3	24	0	24	6	0	6	30

Management in farm animals	4	32	0	32	8	0	8	40
Livestock feed and fodder production	1	8	0	8	2	0	2	10
Household food security	2	0	16	16	0	4	4	20
Low cost and nutrient efficient diet designing	2	0	16	16	0	4	4	20
Production and use of organic inputs	1	8	0	8	2	0	2	10
Any other (Pl. Specify)	7	40	22	62	4	4	8	70
<b>Total</b>	<b>31</b>	<b>192</b>	<b>54</b>	<b>246</b>	<b>52</b>	<b>12</b>	<b>64</b>	<b>310</b>
<b>G. Total</b>	<b>77</b>	<b>633</b>	<b>153</b>	<b>776</b>	<b>181</b>	<b>43</b>	<b>224</b>	<b>1010</b>

### B) OFF Campus: Farmers & Farm Women

Thematic area	No. of courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>I Plant Breeding</b>								
Improved varieties of Mentha and their production technique	01	17	0	17	03	0	03	20
Improved varieties of paddy and their production technique	01	17	0	17	03	0	03	20
Improved varieties of urdbeen and their production technique	01	17	0	17	03	0	03	20
Sucker production technique in Mentha	01	17	0	17	03	0	03	20
Improved varieties of rapeseed & mustard and their production technique	01	17	0	17	03	0	03	20
Improved varieties of sugarcane and their production technique	01	17	0	17	03	0	03	20
Improved varieties of wheat and their production technique	01	17	0	17	03	0	03	20
Improved varieties of wheat under late sown condition and their production technique	01	17	0	17	03	0	03	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low value and high volume crops	01	15	0	15	05	0	05	20
<b>b) Fruits</b>								
Training and pruning of fruit crops								
Layout and management of fruit orchards	01	15	0	15	05	0	05	20
Cultivation of Fruit crops and orchard management practices	02	30	0	30	10	0	10	40
<b>g) Medicinal and Aromatic Plants</b>								
Production and management technology	02	30	0	30	10	0	10	40
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	02	30	0	30	10	0	10	40
Soil and Water Conservation	01	15	0	15	05	0	05	20
Integrated Nutrient Management	03	45	0	45	15	0	15	60
Production and use of organic inputs	01	15	0	15	05	0	05	20
Micro nutrient deficiency in crops	02	30	0	30	10	0	10	40
Nutrient Use Efficiency	01	15	0	15	05	0	05	20
Soil and Water Testing	01	15	0	15	05	0	05	20
<b>IV Livestock Production and Management</b>								
Dairy Management	02	30	0	30	10	0	10	40
Disease Management	03	45	0	45	15	0	15	60
Feed Management	03	45	0	45	15	0	15	60

Production of quality animal products	01	15	0	15	05	0	05	20
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	0	15	15	0	05	05	20
Design and development of low/minimum cost diet	01	0	15	15	0	05	05	20
Designing and development for high nutrient efficiency diet	01	0	15	15	0	05	05	20
Storage loss minimization techniques	02	0	30	30	0	10	10	40
Value addition	01	0	15	15	0	05	05	20
Location specific drudgery reduction technologies	02	0	30	30	0	10	10	40
Women and child care	01	0	15	15	0	05	05	20
<b>VII Plant Protection</b>								
Integrated Pest Management	05	75	0	75	25	0	25	100
Integrated Disease Management	01	15	0	15	05	0	05	20
<b>TOTAL</b>	<b>49</b>	<b>616</b>	<b>135</b>	<b>751</b>	<b>184</b>	<b>45</b>	<b>229</b>	<b>980</b>

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Plant Breeding</b>								
Varietal Evaluation	04	34	0	34	6	0	6	40
Improved Varieties	04	34	0	34	6	0	6	40
Improved varieties of Mentha and their production technique	01	17	0	17	03	0	03	20
Improved varieties of paddy and their production technique	01	17	0	17	03	0	03	20
Improved varieties of urdbean and their production technique	01	17	0	17	03	0	03	20
Sucker production technique in Mentha	01	17	0	17	03	0	03	20
Improved varieties of rapeseed & mustard and their production technique	01	17	0	17	03	0	03	20
Improved varieties of sugarcane and their production technique	01	17	0	17	03	0	03	20
Improved varieties of wheat and their production technique	01	17	0	17	03	0	03	20
Improved varieties of wheat under late sown condition and their production technique	01	17	0	17	03	0	03	20
<b>II Horticulture</b>								
<b>a) Fruit and vegetable crops</b>								
Production of low volume and high value crops	1	15	0	15	5	0	5	20
Layout and management of fruit orchards	1	15	0	15	5	0	5	20
Cultivation of Fruit crops and orchard management practices	3	45	0	45	15	0	15	60
Management of nursery/young plants/orchards	1	15	0	15	5	0	5	20
Rejuvenation of old fruit orchards	1	15	0	15	5	0	5	20
<b>c) Ornamental Plants</b>								
Propagation and management of nursery plants	1	15	0	15	5	0	5	20
<b>g) Medicinal and Aromatic Plants</b>								

Nursery management								
Production and management technology	2	30	0	30	10	0	10	40
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	2	30	0	30	10	0	10	40
Soil and Water Conservation	1	15	0	15	5	0	5	20
Integrated Nutrient Management	5	75	0	75	25	0	25	100
Production and use of organic inputs	1	15	0	15	5	0	5	20
Management of Problematic soils								
Micro nutrient deficiency in crops	3	45	0	45	15	0	15	60
Nutrient Use Efficiency	2	30	0	30	10	0	10	40
Soil and Water Testing	1	15	0	15	5	0	5	20
<b>IV Livestock Production and Management</b>								
Dairy Management	03	45	0	45	15	0	15	60
Disease Management	07	105	0	105	35	0	35	140
Feed management	04	60	0	60	20	0	20	80
Production of quality animal products	01	15	0	15	05	0	05	20
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1		15	15		5	5	20
Design and development of low/minimum cost diet	2		30	30		10	10	40
Designing and development for high nutrient efficiency diet	1		15	15		5	5	20
Storage loss minimization techniques	2		30	30		10	10	40
Value addition	1		15	15		5	5	20
Income generation activities for empowerment of rural Women	3		45	45		15	15	60
Location specific drudgery reduction technologies	2		30	30		10	10	40
Rural Crafts			0	0		0	0	0
Women and child care	2		30	30		10	10	40
<b>VI Plant Protection</b>								
Integrated Pest Management	7	105	0	105	35	0	35	140
Integrated Disease Management	3	45	0	45	15	0	15	60
Bio-control of pests and diseases	6	90	0	90	30	0	30	120
Production of bio control agents and bio pesticides	3	45	0	45	15	0	15	60
<b>VII Fisheries</b>								
Integrated fish farming	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0
Composite fish culture								
<b>TOTAL</b>	<b>89</b>	<b>1089</b>	<b>210</b>	<b>1299</b>	<b>331</b>	<b>70</b>	<b>401</b>	<b>1700</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	1	8	0	8	2	0	2	10
Seed production	2	16	0	16	4	0	4	20
Production of organic inputs	4	32	0	32	8	0	8	40
Nursery Management of Horticulture crops	2	16	0	16	4	0	4	20
Dairying	1	8	0	8	2	0	2	10
Sheep and goat rearing	1	8	0	8	2	0	2	10
Poultry production	01	08	0	08	02	0	02	10
Post Harvest Technology	1	8	0	8	2	0	2	10
Tailoring and Stitching	01	0	08	02	0	02	02	10
Rural Crafts	2	0	16	16	0	4	4	20
<b>TOTAL</b>	<b>16</b>	<b>96</b>	<b>24</b>	<b>122</b>	<b>26</b>	<b>6</b>	<b>32</b>	<b>160</b>

<b>(C) Extension Personnel</b>								
Seed Production	8	136	0	136	24	0	24	160
Integrated Pest Management	3	24	0	24	6	0	6	30
Integrated Nutrient management	4	32	0	32	8	0	8	40
Management in farm animals	4	32	0	32	8	0	8	40
Livestock feed and fodder production	1	8	0	8	2	0	2	10
Household food security	2	0	16	16	0	4	4	20
Women and Child care								
Low cost and nutrient efficient diet designing	2	0	16	16	0	4	4	20
Production and use of organic inputs	1	8	0	8	2	0	2	10
Gender mainstreaming through SHGs								
Any other (Pl. Specify)	7	40	22	62	4	4	8	70
<b>Total</b>	<b>32</b>	<b>280</b>	<b>54</b>	<b>334</b>	<b>54</b>	<b>12</b>	<b>66</b>	<b>400</b>
<b>G. TOTAL</b>	<b>137</b>	<b>1465</b>	<b>288</b>	<b>1755</b>	<b>411</b>	<b>88</b>	<b>499</b>	<b>2260</b>

Details of training programmes attached in **Annexure -I**

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	340	150	490	10	0	10	350	150	500
Kisan Mela	01	250	50	300	35	05	40	285	55	340
Kisan Ghosthi	15	500	100	600	125	25	150	625	125	750
Exhibition	02	500	100	600	125	25	150	625	125	750
Newspaper coverage	25									
Radio talks	08									
TV talks	08									
Popular articles	18									
Extension Literature	04									
<b>Advisory Services</b>	50	180		180	20		20	200		200
Scientific visit to farmers field	180	400	100	500				400	100	500
Farmers visit to KVK	180	350	50	400	45	05	50	395	55	450
Diagnostic visits										
Exposure visits										
Ex-trainees Sammelan	01	50	10	60				50	10	60
Soil health Camp										
Animal Health Camp	01	40	10	50	10	0	10	50	10	60
Agri mobile clinic										
Soil test campaigns	06	280		280	25	0	25	305	0	305
Celebration of important days (specify)	02	150	75	225	25		25	225	250	250
Pre Kharif workshop	1	250	50	300				250	50	300
Pre Rabi workshop	1	250	50	300				250	50	300
<b>Total</b>	<b>516</b>	<b>3540</b>	<b>745</b>	<b>4285</b>	<b>420</b>	<b>60</b>	<b>480</b>	<b>3960</b>	<b>805</b>	<b>4765</b>

### 3.5 Target for Production and supply of Technological products

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Pusa-1509 /PR-113, As per availability	250
	Wheat	PBW-550/ HD 2967/As per availability	250

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya	Pant Papaya-1/ As per availability	2000
	Jackfruit	Seedling material/variety as per availability	2000
	Lime	Seedling material/variety as per availability	2000
VEGETABLES	Cauliflower	Variety as per availability	2000
	Cabbage	Variety as per availability	2000
	Brinjal	Pant Hy-1/ variety as per availability	2000
	Tomato	Manisha / variety as per availability	1000
	Bottle Gourd	Co-1, Pusa Summer Prolific Long/ As per availability	1000
FOREST SPECIES	Poplar	Uday/ variety as per availability	2000
MEDICINAL PLANTS	Ashwagandha	Variety as per availability	1000
	Sarpagandha	Variety as per availability	1000
ORNAMENTAL CROPS	Marigold, chrysanthemum and other seasonal plants	Variety as per availability	2000
<b>Total</b>			<b>20000</b>

#### Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>				
1	Vermicompost			200

#### LIVESTOCK: NIL

#### 4.6. Literature to be Developed/Published

##### (H) KVK News Letter

Date of start :

Number of copies to be published :

##### (B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	03
3	News letters	01
4	Training manual all discipline	06
5	Popular article	18
6	Extension literature	12
<b>Total</b>		<b>42</b>

**(C) Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			

**3.7. Success stories/Case studies identified for development as a case.** -

**3.8 Indicate the specific training need analysis tools/methodology followed for :**

**Practicing Farmers**

- a) RRA
- b) Group discussion

**Rural Youth**

- a) RRA
- b) Group discussion
- c) SWOT Analysis

**In-service personnel**

- a) Group discussion

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) Problem identified from Matrix
- ii) Field level observations
- iii) SWOT Analysis

**For FLD :**

- xxxvii) New variety/technology
- xxxviii) Poor yield at farmers level

**3.10 Field activities**

- i. Name of villages identified/adopted with block name (from which year) -
- ii. No. of farm families selected per village :-
- iii. No. of survey/PRA conducted : -
- iv. No. of technologies taken to the adopted villages: -
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies:

**3.11. Activities of Soil and Water Testing Laboratory**

**Status of establishment of Lab:**

- 1. **Year of establishment** : -
- 2. **List of equipments purchase with amount- No any equipment purchase this year.**

Sl. No	Name of the Equipment	Quantity	Cost (Rs.)
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**12) Targets of samples for analysis:**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	1100			
Water Samples	100			
Plant				
<b>Total</b>	<b>1200</b>			



#### 4.0 LINKAGES

##### 4.1 Functional linkage with different organizations

Name of the Organization	Nature of Linkage
State Agriculture department	Participation in training and meetings at Division, district, block and village level.
	Participation in Exhibition, Gosthies and Kisan Melas at various levels.
	Visits at Govt. farm for spot technical guidance.
	Participation in soil testing programmes.
Fertilizer Agencies	Participation in training, meetings, gosthies/Kisan diwas, Kisan Melas, soil testing and plantation programmes.
Tractor/ Seed/Pesticide Companies	Participation in training, meetings, gosthies/Kisan diwas, Kisan Melas, soil testing and plantation programmes.
State Animal Husbandry department and BAIF	Participations in Animal Health care programmes.
UPSDC	Seed production programme at instructional farm.
State Horticulture department	Participation in training, meeting, gosthies and field visits.
Deptt. Of Fisheries	Participation as Technical expert in Training/ Gosthi etc.
State Social Forestry department	Participation in Environment day and Gosthies.
NABARD	Participation as resource person in Training/Goshti etc.
Bank's	Training as resource person

##### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No: Yes

S. No.	Programme	Nature of linkage
1	Scientist farmer interaction	Resource Person
2	Kisan Mela and Ghoshti	Resource Person
3	Farmer Field School	Resource Person

##### 4.3 Give details of programmes under National Horticultural Mission: NA

S. No.	Programme	Nature of linkage
1	Farmers training/ Demonstration	Technical expert

##### 4.4 Nature of linkage with National Fisheries Development Board: NA

S. No.	Programme	Nature of linkage
1	-	-

**5.0 Utilization of hostel facilities**

Accommodation available: NA

Convergence with departments :

7.1. Details of the programmes being implemented by your KVK in partnership with other institution

7.2. Brief achievements of above collaborative programmes

8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	TSP Project		
2	ARYA Project		
3	CFLD-NFSM Project		
	i. Kharif season		
	ii. Rabi season		
	iii. Summer season		
4	CSISA Project		
5	NICRA Project		
6	Soil Health Card		
7	Other (please specify)		
	Total		

9. Feedback of the farmers about the technologies demonstrated and assessed :

10. Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :

## Annexure - I

## Training Programme

## i) Farmers &amp; Farm women (On Campus)

Date	Clientel e	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Plant Breeding</b>										
12.01.2023	PF	Improved varieties of Mentha and their production technique.	01	17	0	17	03	0	03	20
09.02.2023	PF	Improved varieties of maize and their production technique.	01	17	0	17	03	0	03	20
28.05.2023	PF	Improved varieties of paddy and their production technique	01	17	0	17	03	0	03	20
02.06.2023	PF	Improved varieties of urdbean and their production technique	01	17	0	17	03	0	03	20
07.06.2023	PF	Improved varieties of urdbean & their production technique.	01	17	0	17	03	0	03	20
08.09.2023	PF	Improved varieties of rapeseeds & mustard, and their production technique.	01	17	0	17	03	0	03	20
03.11.2023	PF	Improved varieties of wheat under timely sown condition and their production technique.	01	17	0	17	03	0	03	20
17.11.2023	PF	Improved varieties of wheat under late sown condition and their production technique	01	17	0	17	03	0	03	20
<b>Horticulture</b>										
15.01.2023	PF	Nursery raising of vegetable crops through low poly tunnel	01	15	02	17	02	01	03	20
28.04.2023	PF	Control of fruit dropping in mango	01	15	02	17	02	01	03	20
10.10.2023	PF	Production technology of flower crops	01	15	02	17	02	01	03	20
13.11.2023	PF	Rejuvenation of mango orchard	01	15	02	17	02	01	03	20
<b>Livestock Production</b>										
07.02.2023	PF/FW	Foot and mouth disease of cattle: Its symptoms and control	01	15	02	17	02	01	03	20
13.03.2023	PF/FW	Prevention of H.S., B.Q. diseases in bovine	01	15	02	17	02	01	03	20
20.06.2023	PF/FW	Role of area specific mineral mixture on animal health and production	01	15	02	17	02	01	03	20
19.07.2023	PF	Reproductive disorders in animals and their management	01	15	02	17	02	01	03	20
21.08.2023	PF/FW	Animal husbandry: A profitable enterprise	01	15	02	17	02	01	03	20
18.12.2023	PF/FW	Mastitis & udder infection in milch animals: Its causes & prevention	01	15	02	17	02	01	03	20
<b>Home Science</b>										
14.01.2023	PF	Value addition of amla	01	0	17	17	0	03	03	20
17.02.2023	PF	Preserving of peas for a year for income generation at village level	01	0	17	17	0	03	03	20

23.03.2023	PF	Preservation of tomato at household level	01	0	17	17	0	03	03	20
22.04.2023	PF	Promoting composting and Kitchen gardening for safe and sustainable food	01	0	17	17	0	03	03	20
07.07.2023	PF	Rakhi Making by using locally available material	01	0	17	17	0	03	03	20
11.10.2023	PF	Vaccination schedule for infants	01	0	17	17	0	03	03	20
<b>Soil Science</b>										
23.01.2023	PF	Water and fertilizer management in sugarcane	01	15	02	17	02	01	03	20
20.06.2023	PF	Management of manures and fertilizers in crop production to improve soil health	01	15	02	17	02	01	03	20
19.07.2023	PF	Role and Importance of bio fertilizer & water management in crop production	01	15	02	17	02	01	03	20
06.10.2023	PF	Role & Importance of bio fertilizer in oilseeds and pulses	01	15	02	17	02	01	03	20
07.11.2023	PF	Importance of soil and water conservation	01	15	02	17	02	01	03	20
<b>Plant Protection</b>										
22.01.2023	PF	IPM in mango	01	15	02	17	02	01	03	20
08.04.2023	PF	Control of diseases in zaid pulses (Urd/Moong)	01	15	02	17	02	01	03	20
03.08.2023	PF	Control of major insects & disease in Paddy	01	15	02	17	02	01	03	20
10.12.2023	PF	Control of white rust and aphids in Mustard crop	01	15	02	17	02	01	03	20

**i) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
13.01.2023	PF	Improved varieties of Mentha and their production technique	01	17	0	17	03	0	03	20
12.05.2023	PF	Improved varieties of paddy and their production technique	01	17	0	17	03	0	03	20
10.06.2023	PF	Improved varieties of urdbeen and their production technique	01	17	0	17	03	0	03	20
15.07.2023	PF	Sucker production technique in <i>Mentha</i>	01	17	0	17	03	0	03	20
26.08.2023	PF	Improved varieties of rapeseed & mustard and their production technique	01	17	0	17	03	0	03	20
16.09.2023	PF	Improved varieties of sugarcane and their production technique	01	17	0	17	03	0	03	20

04.11.2023	PF	Improved varieties of wheat and their production technique	01	17	0	17	03	0	03	20
18.11.2023	PF	Improved varieties of wheat under late sown condition and their production technique	01	17	0	17	03	0	03	20
<b>Horticulture</b>										
14.02.2023	PF	Crop regulation in guava fruit	01	15	02	17	02	01	03	20
26.03.2023	PF	Cultivation of aromatic and medicinal crops	01	15	02	17	02	01	03	20
16.05.2023	PF	Production technologies of banana and papaya cultivation	01	15	02	17	02	01	03	20
12.07.2023	PF	Production techniques of cucurbits vegetable	01	15	02	17	02	01	03	20
14.08.2023	PF	Propagation techniques for fruit plants	01	15	02	17	02	01	03	20
21.12.2023	PF	Scientific cultivation of turmeric	01	15	02	17	02	01	03	20
<b>Live Stock Production.</b>										
16.01.2023	PF	Balance concentrate mixture for animals	01	15	02	17	02	01	03	20
22.02.2023	PF	Tympany: its causes and prevention	01	15	02	17	02	01	03	20
17.04.2023	PF	Care and feeding of heifers	01	15	02	17	02	01	03	20
15.05.2023	PF	Fodder production throughout the year	01	15	02	17	02	01	03	20
26.06.2023	PF	Mastitis in cattle and buffalo: Its symptoms and control	01	15	02	17	02	01	03	20
19.09.2023	PF	Control of ecto and endo parasites in animals	01	15	02	17	02	01	03	20
09.10.2023	PF	Improved techniques of fodder production in rabi season	01	15	02	17	02	01	03	20
19.10.2023	PF	Milking methods for higher production	01	15	02	17	02	01	03	20
20.11.2023	PF	Clean milk production	01	15	02	17	02	01	03	20
<b>Home Science</b>										
08.03.2023	PF	Clean milk production and value addition to milk	01	0	17	17	0	03	03	20
07.04.2023	PF	Importance of efficient fuel energy utilization	01	0	17	17	0	03	03	20
09.04.2023	PF	Post harvest handling and storage of grain	01	0	17	17	0	03	03	20
14.04.2023	PF	Methods of drudgery reduction by using improved sickle	01	0	17	17	0	03	03	20
07.05.2023	PF	General health problem: precaution and management	01	0	17	17	0	03	03	20
11.06.2023	PF	Proper care and balance diet for preschool children	01	0	17	17	0	03	03	20
03.07.2023	PF	Dehydration causes and remedies. Preparation of ORS.	01	0	17	17	0	03	03	20
06.08.2023	PF	Nutrition management in different physiological conditions	01	0	17	17	0	03	03	20
04.11.2023	PF	Control of household insects and pests	01	0	17	17	0	03	03	20
<b>Soil Science</b>										
10.01.2023	PF	Importance of foliar application of water soluble fertilizer in crop production	01	15	02	17	02	01	03	20
10.02.2023	PF	Role & importance of micronutrients in crop production	01	15	02	17	02	01	03	20

20.02.2023	PF	Importance of foliar application of zinc and urea	01	15	02	17	02	01	03	20
11/03/2023	PF	Effect of agrochemical on soil health	01	15	02	17	02	01	03	20
17.04.2023	PF	Importance of soil testing in crop production regarding balance fertilizer	01	15	02	17	02	01	03	20
26.06.2023	PF	Importance & method of soil and water conservation	01	15	02	17	02	01	03	20
20.07.2023	PF	Importance and method of fertilizer application to increase fertilizer use efficiency	01	15	02	17	02	01	03	20
05 .08.2023	PF	Water & fertilizer management and how to reduce the nitrogen loss in paddy	01	15	02	17	02	01	03	20
10.08.2023	PF	Role & Importance of macro and micro Nutrient management in vegetable crops	01	15	02	17	02	01	03	20
13.09.2023	PF	Importance of green manuring to improve soil health	01	15	02	17	02	01	03	20
20.11.2023	PF	Organic Farming	01	15	02	17	02	01	03	20
<b>Plant Protection</b>										
10-02-2023	PF	Biological management of termite and white grub in poplar	01	15	02	17	02	01	03	20
09-03-2023	PF	IPM in Cucurbits crops	01	15	02	17	02	01	03	20
06-05-2023	PF	Control of root knot Nematodes in Vegetable crops	01	15	02	17	02	01	03	20
08-07-2023	PF	Control of major insects & disease in sugarcane	01	15	02	17	02	01	03	20
25-07-2023	PF	IPM in paddy	01	15	02	17	02	01	03	20
05-11-2023	PF	Integrated Pest Management in Wheat Crop	01	15	02	17	02	01	03	20

**ii) Vocational training programmes for Rural Youth**

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.T total
					M	F	T	M	F	T	
<b>Crop Production</b>											
	Seed Production	Seed production technique in rice	15-20 May 23	06	08	0	08	02	0	02	10
	Seed Production	Seed production technique in wheat	16-21 Oct. 23	06	08	0	08	02	0	02	10
<b>Horticulture</b>											
	Nursery management of horticultural crops	Nursery raising of flower and vegetable crops	Jun-23	06	06	02	08	01	01	02	10
	Nursery management of horticultural crops	Nursery raising and maintenance of fruits plants	Oct-23	06	06	02	08	01	01	02	10
<b>Livestock</b>	Management and balance feeding of farm animal	Dairy farming	Jan. 23	06	06	02	08	01	01	02	10
	Management and balance feeding of farm animal	Broiler production	Feb. 23	06	06	02	08	01	01	02	10

	Management and balance feeding of farm animal	Goat farming	Sept. 22	06	06	02	08	01	01	02	10
<b>Home Science</b>	Ensuring employment	Cutting and stitching of ladies suit & blouse	May-23	15	0	08	08	0	02	02	10
	Ensuring preparation of household articles at own home	Preparation of household articles by the technique of tie and dye	Oct-23	06	0	08	08	0	02	02	10
	Rural craft for income generation	Candle making	Dec-23	06	0	08	08	0	02	02	10
<b>Soil Science</b>	Production of organic inputs	Techniques of organic manure production	Jan-23	06	02	08	10	01	02	10	06
	Soil and water testing	Natural and organic farming	Feb.-23	06	02	08	10	01	02	10	06
<b>Plant Protection</b>	Small scale income generating enterprises	Mushroom Production technology	Jan-23	06	02	08	10	01	02	10	06
	Post harvest management technology	Methods of safe grain storage	April-23	06	02	08	10	01	02	10	06

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>(On Campus)</b>										
<b>Plant Breeding</b>										
02.03.2023	EF	Varietal description of Urdbean	01	07		07	03	0	03	10
18.05.2023	EF	Varietal description of paddy	01	07		07	03	0	03	10
25.05.2023	EF	Seed production of Basmati rice.	01	07		07	03	0	03	10
22.07.2023	EF	Varietal description of urdbean.	01	07		07	03	0	03	10
24.08.2023	EF	Varietal description of sugarcane	01	07		07	03	0	03	10
26.10.2023	EF	Improved varieties of wheat and their production technique under timely sown	01	07		07	03	0	03	10
09.11.2023	EF	Improved varieties of wheat and their production technique under late sown	01	07		07	03	0	03	10
15.11.2023	EF	Varietal description of linseed	01	07		07	03	0	03	10
<b>Horticulture</b>										
07.01.2023	EF	Techniques of nursery development of fruits plant	01	08		08	02	0	02	10
23.05.2023	EF	Orchard management practices for horticultural crops	01	08		08	02	0	02	10
21.09.2023	EF	Technical training on rose cultivation	01	08		08	02	0	02	10
15.12.2023	EF	Scientific cultivation techniques for vegetables	01	08		08	02	0	02	10
<b>Livestock</b>										
22.01.2023	EF	Nutrition and feeding of cow and buffalo calves	01	08		08	02	0	02	10
19.03.2023	EF	Development in the treatment of metritis,	01	08		08	02	0	02	10

		endo- metritis & pyometra								
23.05.2023	EF	Green fodder production and preservation	01	08		08	02	0	02	10
10.07.2023	EF	Main cause of prolapsed, its prevention	01	08		08	02	0	02	10
12.12.2023	EF	Vaccination and other preventive measures against contagious diseases in animals	01	08		08	02	0	02	10
<b>Home Science</b>										
19.01.2023	EF	Nutritional deficiency diseases, its symptoms and remedies in human being	01	0	08	08	0	02	02	10
29.01.2023	EF	Common food adulterants and their identification	01	0	08	08	0	02	02	10
05.05.2023	EF	Common food adulterants and their identification	01	0	08	08	0	02	02	10
08.07.2023	EF	Preparation of Aganwandi kit from locally available material	01	0	08	08	0	02	02	10
20.11.2023	EF	Nutritional deficiency diseases, its symptoms and remedies in human being	01	0	08	08	0	02	02	10
<b>Soil Science</b>										
29.01.2023	EF	Techniques of pulse production in zaid	01	08		08	02	0	02	10
15.02.2023	EF	Importance of soil and water conservation	01	08		08	02	0	02	10
13.05.2023	EF	Importance and method of soil sampling	01	08		08	02	0	02	10
15.07.2023	EF	Introduction and importance of biodynamic compost production	01	08		08	02	0	02	10
12.08.2023	EF	Importance of soil testing in crop production	01	08		08	02	0	02	10
13.11.2023	EF	Integrated nutrient management in oilseeds and pulses	01	08		08	02	0	02	10
<b>Plant Protection</b>										
17.02.2023	EF	Safe use of Bio pesticides	01	08		08	02	0	02	10
19.05.2023	EF	Use of Bio pesticide in Organic farming	01	08		08	02	0	02	10
16.09.2023	EF	Integrated pest management (IPM)	01	08		08	02	0	02	10
16.12.2023	EF	Identification of diseases and insect pests in Rabi crops	01	08		08	02	0	02	10

**(iv) Sponsored programme**

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
<b>d) Sponsored training programme</b>											
All Agricultural Subject	UP State	Formal	FTT	04	150	25	175	20	05	25	200

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# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA MUZAFFARNAGAR-I**

# ACTION PLAN

(JANUARY to DECEMBER 2023)

## KRISHI VIGYAN KENDRA, MUZAFFARNAGAR-I

### 1. General Information about the KVK

#### 1.1. Name and address of the KVK

Address	Telephone		E-Mail	Website
	Office	FAX		
SWAMI KALYAN DEV KRISHI VIGYAN KENDRA, BAGHRA, DISTT.-MUZAFFARNAGAR (U.P.) PIN- 251306	9412667101		kvkmuzaffarnagar@gmail.com muzaffarnagarkvk@gmail.com	muzaffarnagar.kvk3.in

#### 1.2. a. Name and address of the host organization

Address	Telephone		E-Mail	Website
	Office	FAX		
DIRECTORATE OF EXTENSION S.V.P.Univ. of Agril. & Tech., Meerut.	0122- 2888511	0122- 2888505 2888540	deesvpuat2014@gmail.com	svpuatmeerut.ac.in

1.2.b. Status of KVK website :            Developed : muzaffarnagar.kvk4.in

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : NA

1.2.d Status of ICT lab at your KVK        :        ERNET Lab

#### 1.3. Name of the Head

Name	Telephone/ Contact		
	Office	Mobile	E-Mail
Dr. Anil Katiyar	--	9412667101	kvkmuzaffarnagar@gmail.com muzaffarnagarkvk @gmail.com

1.4 . Year of Sanction

: December 1995

1.5. Staff Position (as on 1 Sept. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	SMS	Dr. A. K. Katiyar	Professor	Soil Science	37400-67000	10000	1,93,800	16.01.95	Permanent	OBC	8077978022	katiyarakpbt@gmail.com	
2	SMS	Dr. Savita Arya	Assoc Professor	H.Sc.	37400-67000	9000	1,71,400	08.03.96	Permanent	OBC	8266855801	Savitaarya07@gmail.com	
3	SMS	Dr. Virendra Singh	SMS/ Asstt. Prof.	Plant Protection	15600-39100 8000	8000	1,01,100	26.12.08	Permanent	OBC	9456841516	virendrdr@gmail.com	
4	SMS	Dr. Sripal	SMS/ Asstt. Prof.	Plant Breeding	15600-39100	8000	98,200	01.07.08	Permanent	OBC	9412640127	shripalranakvk@gmail.com	
5	SMS	Dr. Deepak Sharma	SMS	Livestock Production	15600-39100	5400		02.07.22	Permanent	GEN	9017182559	deepak0533@gmail.com	
6	SMS	Dr. Reena	SMS	Agronomy	15600-39100	5400		07.07.22	Permanent	SC	9027590850	reenaverma230@gmail.com	
7	Computer Programmer	Sh. A.K. Singh	Programme Asstt.,Comp	Computer Application	9300-34800	4800	76500	16.10.99	Permanent	GEN	9412514823	1475ak@gmail.com	
8	Acctt./ Suptd	Sh. S.K. Dubey	O.S./Acctt.	--	9300-34800	4600	55200	01.07.98	Permanent	GEN	9411950340	skdubey1971@gmail.com	
9	Supporting Staff	Sh. Ajesh Sharma	Attendant	--	4440-7440	2400	37500	16.01.95	Permanent	GEN	9456223598	kvkmuzaffarnagar@gmail.com	

**1.6. Total land with KVK (in ha) : 0.70 ha.**

S.No	Item	Area (ha)
1.	Under Building	0.20
2.	Under Demonstration Units	0.50

**1.7. Infrastructure Development :**

*A). Building*

S. No.	Name of the building	Source of fund	Stage		
			Complete		
			Completion date	Plinth area in Sqm.	Sanctioned budget (Rs)
1.	Administrative Building	ICAR	March 1998	510 sqm	15.84 lac
2.	Farmers Hostel	ICAR	31.03.10	300	---
3.	Staff Quarters (6)	ICAR	31.03.08	400 sqm	26.71 lac
4.	Demonstration Unit (2)	ICAR	31.03.08	160 sqm	11.58 lac

*B). Vehicles*

Type of Vehicle	Year of Purchase	Cost (Rs.)	Total KMS Run	Present Status	Required replacement
Jeep UP12 S 2012	2009	507000.00	220842 KM	Condemned	Yes
Motorcycle (Hero Honda- UP 12 W 9367)	2010	52000.00	24910 Km	Working	--
Bicycle	1995	2390.00	--	Auctioned	--

### C). Equipments & AV Aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Required replacement
<b>Equipments</b>				
Weighing Balance with weight	20.05.98	505.00	Working	
Sewing Machine	06.02.98	268.00	Working	
P.A. Set	30.03.98	6327.00	Working	
Water Tank	30.06.97	6200.00	1 Working	
Diesel Engine with Alternator	30.03.98	20931.00	Working	
Generator	24.03.04	28900.00	Working	
Submercible T/Well	31.03.05	35500.00	Working	
Soil Testing Laboratory (Furniture, Equipment complete accessories)	2004-05	860000.00	Working	
V.C.D.	26.03.04	2450.00	Working	
Camera	26.03.04	5800.00	Working	
Camera (Digital)	01.02.07	20990.00	Working	
Colour T.V.	07.02.04	16990.00	Working	
Fax Machine	27.03.04	11000.00	Working	
Scanner, C.D. Writer, UPS for Computer	31.03.05	7490.00	Working	
Demonstration Material (Digital Poster 10 No., 3 D Models 6 No.)	23.03.04	14570.00	Working	
LCD With Memory Card	30.03.07	68125.00	Working	
42 CDs (ICAR Literature)	26.10.05	Provided by ICAR	Working	
<b>Farm Implements :</b>				
Harrow	30.03.96	8500.00	condemn	
Tiller	30.03.96	10500.00	Working	
Ridger	30.03.96	5700.00	Working	
Laveller	30.03.96	9000.00	Working	
Ridge Maker	30.03.96	4500.00	Working	
Bogi	23.09.97	5025.00	Working	
Foot Sprayer (Maruti)	14.03.97	1850.00	Working	
Napsake Sprayer (Aspee)	14.03.97	865.00	Working	
Jubliee Duster (Aspee)	14.03.97	900.00	Working	
Harrow (11 disc)	01.08.03	11500.00	Working	
Weighing Machine	06.08.04	2880.00	Working	
Trolley	30.11.04	61500.00	Working	
Zero Till Ferti Seed Drill	30.03.05	22500.00	Working	
Raised- bad- planter	31.03.10	55000.00	Working	
Soil Micronutrients unit	31.03.10	2480000.00	Working	
Honey Processing Unit	31.03.10	760000.00	Working	

### 1.8. A. Details of SAC meeting to be Conducted in the year

S. No.	Date
1.	Dec. 2022

## 2. Details of District (2021-2022 )

### 2.1 Major Farming System/ enterprises (based on analysis made by KVK)

- S. Cane based + A.H+ Horticulture
- S. Cane based + A.H+ Horticulture
- S. Cane based + A.H+ Vegetable + Floriculture
- S. Cane based + A.H + Horticulture

### 2.2 Description of Agro climatic Zone & major agro ecological situations

Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
1.	AES-1	More than 85% Area, Sandy Loam Soil	S.Cane, Wheat, Rice, Jowar, Mango, Potato	S. Cane based + A.H+ Horticulture	Purkaji, Morna & Jansath
2.	AES-2	More than 95% irrigated, Loam	S.Cane, Wheat, Rice, Jowar, Mango, Guava, Litchi , Frenchbean	S. Cane based + A.H+ Horticulture	Baghra & Sadar
3.	AES-3	More than 95%, Sandy Loam	S.Cane, Wheat, Jowar, Brinjal, Cabbage, Gladiolus, Tuberose,	S. Cane based + A.H+ Vegetable+ Floriculture	Charthawal, Khatauli
4.	AES-4	Low Water table area, Loam & Sandy Loam soil	S. cane, Wheat, urd, Jowar, Mango	S. Cane based + A.H + Horticulture	Budhana & Shahpur

### 2.3 Soil Type/s

S.No.	Soil Type	Characteristics		Area (ha)
		Soil particle Diameter (mm)	Water holding capacity	
1.	Sandy	2 - 0.2 mm,	Poor	17633
2.	Sandy loam	0.2 - 0.02 mm,	Medium	128334
3.	Loam	0.02 - 0.002 mm	Average	78186
4.	Clay loam	>than 0.002 mm	Good	5126
		<b>Total</b>		<b>220269</b>

#### 2.4. Area, Production & Productivity of major crops cultivated in the district in 2020

S.N	Crop	Area (ha)	Productivity (Qt./ha)
1.	Sugarcane	132004.00	933.00
2.	Wheat	80254	41.17
3.	Paddy	11580	27.30
4.	Blackgram	717	5.40
5.	Greengram	100	4.14
6.	Lentil	285	6.91
7.	Gram	270	1074
8.	Pea	360	13.89
9.	Pigeon Pea	37	8.04
10	Mustard	4018	12.67
11	Potato	3260	230.01
12	Cotton	274	1.30
13	Maize	250	15.75

#### 2.5 Weather Data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
January 2022	103.8	16.3	6.4	85.5
February 2022	50.8	21.9	7.4	78.5
March 2022	0.00	31.4	14.2	56.0
April 2022	0.00	38.2	19.3	35.5
May 2022	84.0	36.4	23.3	52.0
June 2022	69.8	37.1	23.7	51.0
July 2022	144.6	33.6	25.2	76.0
August 2022	--	--	--	--
September 2022	--	--	--	--

#### 2.6 Production & Productivity of Livestock, Poultry, Fisheries in the district

Category	Population	Production	Productivity
<b>Cows</b>			
Crossbred	35460	413514 liter/day	1800-3178 liter/lactation
Indigenous	133459		1200-2270 liter/lactation

<b>Buffalo</b>	204306	1790140 liter/day	1360-2270 liter/lactation
<b>Sheep</b>		--	--
Crossbred	223	Wool - 11873 kg/ year	--
Indigenous	8478		
<b>Goats</b>	20429	5294 mt	180-544 lit/lactation
<b>Pigs</b>			
Crossbred	10543	12012000 kg meat	--
Indigenous	24856		
<b>Rabbits</b>	281	--	--
<b>Poultry</b>			
Hens			
Desi	54502	163589 kg meat	1.0 kg
Improved	109087		
Ducks	1642	--	--
Turkey	20	--	--
Camel	41	--	--

#### Fisheries

Category	Area (ha)	Production	Productivity
Fish	1239	40887 qt	30-35

#### 2.7 Details of Operation area/ Villages (2023)

S. No.	Taluk	Name of Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust areas
1.	Sadar	Baghra	Narottampur	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.
				Mango	Poor yield due to no use of micronutrients	Fertilizer management
				Guava	Poor quality yield due to fruit fly infestation	Fruit fly management
				Cauliflower	Poor yield due to use of local variety	Introduction of HYV
				Brinjal	Poor quality of fruits due to foot & shoot borer	IPM



2.	Sadar	Charthawal	Rohana kala Khusorpor Badhai kala	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM
				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM Weed mgt. Introduction of HYV
				Barseem	Low fodder production	Timely sowing Introduction of HYV \\
3.	Budhana	Shahpur	Salakhedi Sohjani Tagan	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM
				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM Weed mgt. Introduction of HYV
				Barseem	Low fodder production	Timely sowing Introduction of HYV \\

### 2.8 Priority Thrust Areas.

Crop/Enterprise	Thrust area
Sugarcane	IPNM, SSNM, Weed management, IPM, IDM, Seed production
Wheat	Integrated Nutrient Management, Weed management, IPM, IDM, Seed production, Foliar application of Micronutrients
Rice	IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Vegetables	IPNM & IPM
Oilseeds & Pulses crop	Sulphur, Zinc application & IPM
Animals	Endo & Ecto parasite control, Improving fertility

1. Maintenance of soil productivity through soil test based nutrient management.
2. Promoting intercropping modules with Sugarcane
3. Popularizing Bio- pesticides for management of insect pests
4. Promoting quality floriculture as diversification enterprise for extra income generation.
5. Promoting quality vegetable nursery
6. Mineral mixture supplementation among animals for improving fertility
7. Promoting Group Approach of Extension through Women SHGs and Vallabh Krishak Clubs

### 3. TECHNICAL PROGRAMME

#### 3. A. Details of targeted mandatory activities by KVK

OFT		FLD	
1		2	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
15	71	73.54 + 160 animal+ 20 unit	365

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
127	2445	4427	13662

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
250	28000	--	2500	3200

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
1000	28000	--	--

### 3. B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Trg. If any	Title of Trg. Of Ext. Personnel if any	Extension activities	Supply of seeds/ planting materials etc.
1.	Improving production & productivity of s. cane	Sugarcane	Low production & productivity of Sugarcane due to -- Late sowing -- Imbalance use of fertilizer -- Disease & insect infestation	- White grub mgt.	Mgt. of early shoot borer	Balance use of fertilizer  White grub mat.	Fertilizer mgt in S. cane	Field day	Pesticide & Bio Pesticide
2.	Potential productivity of Sugarcane	Sugarcane	Exponential Reduction productivity Dominant use of Nitrogen and Phosphorus only	Site Specific Nutrient Management	SSNM	Nutrient supply on Target yield basis	Trench Planting and use of SSNM	Field day Trainings	Nutrients in the form of Fertilizers
3.	To increase the productivity of Wheat.	Wheat	--Low production of Wheat due to use of local variety -- Weed infestation -- Late sowing of wheat -- Imbalance use of fertilizer - Deficiency of nutrients	Varietal evaluation  Nutrient Management	Weed mgt. Mgt. of karnal bunt & loose smut Nutrient Management	- Seed production of Wheat - Water mgt. - Weed mgt.	Introduction of HVY  --	Rabi Gosthi, Field day	Seed (WH-1105, DBW 71)  Secondary & Micronutrient
4.	Improving production & productivity of Rice	Rice	Low production & productivity of rice due to -- Poor varieties -- Imbalance use of fertilizer -- Disease & insect infestation	Varietal evaluation	Mgt. of Stem borer & rice neck blast -Weed mgt INM in Rice.	Crop prod. Mgt. IPM in rice  INM Soil test based	IPM in rice  INM in Rice	Field day	Seed(PB 1509, Vallabh 23) Bispyribac Sodium 10% @80 gm/ acre S & Zn apply on standing crop
5.	Improving production & productivity of	Cauliflower French bean Cabbage	Low production due to use of local variety --disease infestation	--	Introduction of HYV	Producing nursery raising techniques of vegetables & flowers	Scientific cultivation & IPM in	--do--	Improved seed

	vegetables	Chili Brinjal	-- Imbalance use of fertilizer				vegetable crop		
6.	Improving production & productivity of Fruits	Guava	Low production & productivity of Guava due to lack of technical knowledge	Mgt. of Wilt	Mgt of fruit Fly	--Crop regulation in Guava -- Disease & Pest mgt -- Fertilizer mgt.	Crop regulation & Orchard mgt of Guava	Field day & Gosthi	Bio- Pesticide & Fungicide
7.	Diversification through high value crops	Gladiolus , Tubrose, Merigold	Low production due to - Use of local variety - Disease infestation - Lack of technical knowledge	Varietal evaluation	Disease mgt.	-- Scientific cultivation of Gladiolus , -- Scientific cultivation of Tubrose -- Disease mgt of Gladiolus & Tubrose	Plant Propagation techniques	Field day ,Gosthi & Literature	Planting Material
8.	Improving production & productivity of Oilseeds & Pulses	Mustard Urd	Low production & Productivity due to  -- Incidence of insect & disease -- Use of local variety -- Imbalance use of fertilizer -- lack of technical knowledge	--	Demo on HYV  -	-- IPM in Mustard crop -- Aphid control in Mustard crop. - Role of sulphar in Oilseed crop. --Use & importance of Raziobium culture in Pulses crop --Disease & insect mgt.	Scientific cultivation of oilseed & Pulses	Field days, Gosthi & Literature	Mustard Seed- Pusa Mustard 25/28 Urd- IPU 02-43 /PU – 28/31/40
9.	Improving production of green fodder	Makkhan Grass	Introduction of new Fodder crop	--	Introduction (of HYV) of Makkhan Grass	--	--	----	Seed
10.	Drudgery reduction among farm women	Farm women	Poor skill due to lack of technical knowledge	Drudgery reduction	---	Drudgery reduction of farm women by improved agriculture implements	--	Do----	Improved Stool
11.	Malnutrition among rural family	Kitchen garden	No production of vegetables at domestic level	--	-- Nutritive kitchen garden	-- Role of sprouted pulse -- Making of mango jam. -- Role of green leafy	-- Nutrient mgt. of pre- schoolers	--do--	Seed & Saplings of fruit & vegetables  Fruits &

						vegetables			chemical preservatives
12.	Fertility improvement in cattle	Cattle & Buffalo	Infertility & poor milk yield	Enhancing milk production & control of anoestrous condition in cattle & buffaloes.	Deworming	Disease mgt. Control of parasitic infestation Fodder mgt.	Disease mgt. Control of parasitic infestation Fodder mgt.	--	Dewormer, mineral mixture

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	3	--	--	--	1	--	--	--	--	4
Weed Management	--	--	--	1	--	--	--	--	--	1
Integrated Nutrient Management	1	--	--	1	--	--	--	--	--	2
Drudgery reduction	2	--	--	--	--	--	--	--	--	2
Integrated Pest Management	--	--	--	1	--	--	--	--	--	1
Integrated Disease Management	1	--	--	--	--	--	--	--	--	1
Resource conservation technology	--	--	--	2	--	--	--	--	--	2
<b>TOTAL</b>	<b>7</b>	<b>--</b>	<b>--</b>	<b>5</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>13</b>

**A.2. Abstract on the number of technologies to be refined in respect of crops**

**A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises**

<b>Thematic areas</b>	<b>Cattle</b>	<b>Poultry</b>	<b>Sheep</b>	<b>Goat</b>	<b>Piggery</b>	<b>Rabbitary</b>	<b>Fisheries</b>	<b>TOTAL</b>
Disease of Management	1	--	--	--	--	--	--	1
Feed and Fodder	1	--	--	--	--	--	--	1
<b>TOTAL</b>	2	--	--	--	--	--	--	2

**A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises**

<b>Thematic areas</b>	<b>Cattle</b>	<b>Poultry</b>	<b>Sheep</b>	<b>Goat</b>	<b>Piggery</b>	<b>Rabbitary</b>	<b>Fisheries</b>	<b>TOTAL</b>
Evaluation of Breeds	--	--	--	--	--	--	--	--
Nutrition Management	--	--	--	--	--	--	--	--
Disease of Management	--	--	--	--	--	--	--	--
Value Addition	--	---	--	--	---	---	--	--
Production and Management	--	--	---	--	--	--	--	--
Feed and Fodder	--	--	--	--	---	--	--	--
Small Scale income generating enterprises	--	--	--	--	--	--	--	--
<b>TOTAL</b>	--	--	--	--	--	--	--	--

## B. Details of each On Farm Trial

### 1. OFT on Varietal evaluation of Wheat :

Crop/Enterprises	Wheat
Title of on-farm trial	<b>Varietal evaluation of timely sown Wheat</b>
Problem diagnosed	Low yield & heavy infestation of yellow rust due to use of old/ traditional variety
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- PBW 502
Details of technologies selected for assessment/refinement	T2- WB 2/ PBW 723/DBW 187/HD3226 or any other new variety
Source of technology	IWBR Karnal/IARI
No. of farmers	3 (Area – 0.4 * 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Wheat seed (WB 2/ PBW 723/DBW 187/HD3226 )
Performance indicators i). Technical ii). Economic iii).Social	No of Plants per sq/meter Total yield /ha , Disease occurrence Income B.C. ratio
Cost of each location	1650/-
Total Cost of OFT	4950/-
Name of Scientist	Dr. Shripal, SMS (Plant Breeding)

### 2. OFT on Varietal evaluation of Wheat :

Crop/Enterprises	Wheat
Title of on-farm trial	Varietal Evaluation of late sown Wheat
Problem diagnosed	Low yield & heavy infestation of yellow rust due to use of old/ traditional variety
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Farmers practice (DBW 16)
Details of technologies selected for assessment/refinement	T2- DBW 173
Source of technology	IWBR Karnal
No. of farmers	3 (Area – 0.4 * 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Wheat seed (DBW 173)
Performance indicators i) Technical ii) Economic iii) Social	No of Plants per sq/meter Total yield /ha , Disease occurrence Income B.C. ratio
Cost of each location	1650/-
Total Cost of OFT	4950/-
Name of Scientist	Dr. Shripal, SMS (Plant Breeding)

### 3. OFT on Varietal evaluation of Basmati

Crop/Enterprises	<b>Paddy</b>
Title of on-farm trial	<b>Varietal evaluation of Basmati</b>
Problem diagnosed	Low yield & heavy blast and use of old/traditional variety
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Local (PB-1)
Details of technologies selected for assessment/refinement	T2 – Pusa Basmati 1637/PB1718
Source of technology	IARI, New Delhi
No. of farmers	3 (Area – 0.4 * 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Seed ( Pusa Basmati 1637/1718)
Performance indicators i). Technical ii). Economic iii).Social	No of Plants per sq/meter Total yield /ha , Disease occurrence Income B.C. ratio
Cost of each location	1500/-
Total Cost of OFT	4500/-
Name of Scientist	Dr. Shripal, SMS (Plant Breeding)

### 4. OFT on Varietal evaluation of Cauliflower :

Crop/Enterprises	<b>Cauliflower</b>
Title of on-farm trial	Varietal evaluation of Cauliflower
Problem diagnosed	Low yield due to use of local variety
Thematic area	Production & management technology
Farming situation	Irrigated
Farmer's practices	T1- Farmer practices (Use of local variety )
Details of technologies selected for assessment/refinement	T-2 GS-75
Source of technology	UPL Ltd.
No. of farmers/ No. of locations	03
Replications	03
Critical input	Seed of GS-75
Performance indicators i). Technical ii). Economic iii) Social	Yield, Disease incidence, Net profit (Rs/ha), Acceptability of technology
Cost of each location	2500/-
Total Cost of OFT	7500/-
Name of Scientist	Dr. J.K.Arya, Prog. Asstt. (Horticulture)



### 5. OFT on Management of White Grub in Sugarcane

Crop/Enterprises	Sugarcane
Title of on-farm trial	<b>To increase production potential of sugar cane through integrated management of white grub .</b>
Problem diagnosed	Yield loss in sugarcane due to white grub infestation
Production system and thematic area	Wheat-Sugarcane-Wheat production system and Integrated Pest Management
Farming situation	Irrigated
Farmer's practices	T1- No Treatment
Details of technologies selected for assessment/refinement	T2- Use of Chlorpyrifos 20 EC @ 5 lit/ha with irrigation water + soil treatment with <i>Beauveria bassiana</i> @ 5kg/ha. mixed with FYM @ 500 kg/ha
Source of technology	S.V.P.U.A. & T., Meerut.
No. of farmers	5 (0.4 * 5 = 2.0 ha)
Replications/No. of locations	5
Critical input	Chlorpyrephos 20 EC 10 lit @ Rs.450 = Rs 4500.00 & <i>Beauveria Bassiana</i> powder 10 kg @ Rs.250 = Rs. 2500.00,
Performance indicators i). Technical ii). Economic iii). Social	<b>I. Technical</b> a. White Grub Infestation b. Yield (q/ha) <b>II. Economic:</b> a. C:B ratio <b>I. Social:</b> a. Farmer's Reactions
Total Cost of OFT	7000/-
Name of Scientist	Dr. Virendra Singh, SMS/Asstt. Prof. (Plant Protection)

### 6. OFT on Management of Stem Borer in Paddy

Crop/Enterprises	Paddy
Title of on-farm trial	<b>Management of Stem Borer in Paddy</b>
Problem diagnosed	Imbalance and improper use of plant protection measures
Production system and thematic area	Wheat-Jowar-Rice production system and Integrated Pest Management
Farming situation	Irrigated
Farmer's practices	T1- Farmer practices (Use of Phorate 10G @ 25 kg/ha)
Details of technologies selected for assessment/refinement	T2- Use of chlorantraniliplore 0.4GR(Ferterra)@10kg/ha
Source of technology	S.V.P.U.A. & T., Meerut.
No. of farmers	5 (0.4 x 5 =2.0 ha)
Replications/No. of locations	5
Critical input	Ferterra 20kg @ Rs. 225
-Performance indicators i). Technical ii). Economic	<b>I. Technical</b> a. Insect Infestation b. Yield (q/ha) <b>II. Economic:</b> a. C:B ratio <b>VI. Social:</b> a. Farmer's Reactions
Total Cost of OFT	4500/-
Name of Scientist	Dr. Virendra Singh, SMS/Asstt. Prof. (Plant Protection)

### 7. OFT on Irrigation management through Soil Moisture Indicator in Sugarcane :

Crop/Enterprises	Sugarcane
Title of on-farm trial	<b>Irrigation management based on Soil Moisture Indication</b>
Problem diagnosed	Heavy Irrigation in Sugarcane
Production system and thematic area	Sugarcane-Wheat- Sugarcane & IWM
Farming situation	Irrigated
Farmer's practices	T1- flood irrigation by farmer (18-20 Irrigation)
Details of technologies selected for assessment/refinement	T2 – <b>Irrigation based on Soil Moisture Indication</b>
Source of technology	ICAR-SBI Coimbatore
No. of farmers /No. of locations	5
Replications	5
Critical input	<b>Soil Moisture Indicator</b>
Performance indicators i) Technical ii) Economic iii) Social	No of Irrigation, Crop Health, Water Saving % Total yield /ha , Income B.C. ratio
Cost of each location	1500/-
Total Cost of OFT	7500/-
Name of Scientist	Sh.Shripal ,SMS (plant breeding)

### 8. OFT on Irrigation management in Sugarcane :

Crop/Enterprises	Sugarcane
Title of on-farm trial	<b>Water management in sugarcane</b>
Problem diagnosed	Heavy Irrigation in Sugarcane
Production system and thematic area	Sugarcane-Wheat- Sugarcane & IWM
Farming situation	Irrigated
Farmer's practices	T1- flood irrigation by farmer (18-20 Irrigation)
Details of technologies selected for assessment/refinement	T2 – <b>Alternate furrow irrigation</b> T3- <b>Alternate furrow irrigation with trash mulching</b>
Source of technology	ICAR
No. of farmers /No. of locations	3
Replications	3
Critical input	
Performance indicators i) Technical ii) Economic iii) Social	No of Irrigation, Crop Health, Water Saving % Total yield /ha , Income B.C. ratio
Cost of each location	1500/-
Total Cost of OFT	4500/-
Name of Scientist	Dr.Shripal,SMS (Plant Breeding)

### 9. OFT on Weed Management in Sugarcane :

Crop/Enterprises	Sugarcane
Title of on-farm trial	<b>Weed management in sugarcane</b>
Problem diagnosed	Sugarcane crop faces an acute competition from weed especially during 40-70 days after planting [All type of weed (Cyperus rotundus)]
Production system and thematic area	Paddy-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Farmers practices (Atrazine@5kg/ha at 0-2 days of planting of the crop
Details of technologies selected for assessment/refinement	T2 – 90 g Halosulfuron methyl 75% WG (Sempra) + Metribuzin 70% WP (Boosten 750g) at 3-4 leaf weed stage
Source of technology	S.V.P.U.A.& T., Meerut.
No. of farmers /No. of locations	3
Replications	6
Critical input	Weedicide [Halosulfuron methyl 75% WG (Sempra) + Metribuzin 70% WP (Boosten 750g)]
Performance indicators i) Technical ii) Economic iii) Social	No of Plants per sq/meter Total yield /ha , Income B.C. ratio
Cost of each location	3500/-
Total Cost of OFT	10500/-
Name of Scientist	Dr Shripal ,SMS (Plant Breeding)

### 10. OFT On Repeat Breeding ( Kharif -2022 )

Crop/Enterprise	<b>Buffalo</b>
Title	Feed Supplement(MM) feeding to control repeat breeding in buffalo ( through the use of micro nutrient )
Problem diagnosed	Higher incidences of repeat breeding
Farming situation	Integrated farming system
Thematic area	Micro nutrition management
Farmer's Practice	Use of choker and common salt
Details of technologies selected for assessment/refinement	
Source of technology	IVRI, Bareilly
T <sub>1</sub>	Farmer's practice (Use of choker and common salt)
T <sub>2</sub>	Use of Feed Supplement (Bestmin Gold) feeding @40 gm/day/animal for three month feeding
T <sub>3</sub>	T <sub>2</sub> + Dewormer (Exinot- 30 ml vial)/animal
No. of families/animal	10
Critical Input	Bestmin Gold & Dewormer
Observations to be recorded	<ul style="list-style-type: none"> <li>• No. of cured animals</li> <li>• Cost: Benefit ratio</li> </ul>
Total cost of OFT	Rs 8000/-
Name of Scientist	

**OFT 11 : OFT on Treatment for post-calving anoestrous (Rabi -2022)**

<b>Crop/Enterprise</b>	<b>Buffalo</b>
Title	Evaluation of clinical and non-clinical treatment for post-calving anoestrous in Buffaloes
Problem diagnosed	Higher incidences of post-calving anoestrous
Farming situation	Crop production & Animal production
Production system	Dairy farming
Thematic area	Dairy management
Farmers' Practices	Use of choker and common salt
Details of technologies selected for assessment /refinement	
Source of technology	IVRI, Izatnagar , Bareilly
No. of farmers	10
T <sub>1</sub>	Farmers practice (Use of choker and common salt)
T <sub>2</sub>	Mineral mixture supplementation @ 50 g/ /day/ animal for 45 days
T <sub>3</sub>	T <sub>2</sub> + Vetmate (Gonadotrophic hormone) inj @ 2 ml (72 hrs before AI) after 45 days of calving.
Critical input	Mineral mixture, vetmate
Performance indicators	<ul style="list-style-type: none"> <li>• No. of cured animals</li> <li>• Cost: Benefit ratio</li> </ul>
Total cost of OFT	Rs 7000/-
Name of Scientist	(Animal Science)

**OFT 12: OFT on Soil test based Micro-Nutrient Management in Wheat :**

<b>Crop/Enterprises</b>	<b>Wheat</b>
Title of on-farm trial	Selection of fertilizer combination from soil health card for wheat production
Problem diagnosed	Low yield & deficiency symptoms appearing on standing crop in late sown wheat
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- 150kg urea + 50 kg DAP /acre
Details of technologies selected for assessment/refinement	T2 – Soil test based S, Zn, B and other nutrient management
Source of technology	G. B.Pant Univ. Pantnagar
No. of farmers	6 (Area – 0.4x 6 = 2.40 ha)
Replications/No. of locations	6
Critical input	Zn, S, B and other nutrient
Performance indicators	No of Plants per sq/meter
i). Technical	Total yield /ha ,Deficiency occurrence
ii). Economic	Income
iii).Social	B.C. ratio
Cost of each location	2500/-
Total Cost of OFT	15000/-
Name of Scientist	Dr. Anil Katiyar Professor Soil Sci.

**OFT 13: OFT on Site Specific Nutrient Management in Sugarcane:**

Crop/Enterprises	Sugarcane
Title of on-farm trial	Site Specific Nutrient Management is a unique approach in Sugarcane cultivation
Problem diagnosed	Low yield & nutrient deficiency occurs
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- 150 kg urea + 50 kg DAP/acre
Details of technologies selected for assessment/refinement	T2 – S @15kg/acer basal +2kg Standing Crop, Fe @1015kg/acer basal, Zinc @10 kg/acer basal + 2 kg/acer in Standing Crop, Boron @2 kg/acer basal, Soil test based secondary & Micro- nutrient
Source of technology	IISR Lucknow
No. of farmers	6 (Area – 0.4x 5 = 2.0 ha)
Replications/No. of locations	6
Critical input	MOP,S, Zn, Fe, B
Performance indicators i). Technical ii). Economic iii).Social	No of Plants per sq/meter Total yield /ha , Disease occurrence Income B.C. ratio
Cost of each location	2000/-
Total Cost of OFT	12000/-
Name of Scientist	Dr. Anil Katiyar Professor Soil Sci.

**OFT-14 Assessment of Twin Wheel hoe for Drudgery reduction and efficiency enhancement of farm women involved in weeding in Paddy:**

SNo.	Particular	Detail
1.	Title of On Farm Trial	Assessment of Twin Wheel hoe for Drudgery reduction and efficiency enhancement of farm women involved in weeding in wheat
2.	Problem Diagnosed	Low efficiency and high drudgery of farm women during weeding in Paddy
3.	Thematic Area	Drudgery Reduction
4.	Details of Technology Selected for Assessment	T1: Use of Khurpi T2- Use of Twin Wheel hoe
5.	Source of Technology	CIAE, Bhopal,2098
6.	Farming / Enterprise Situation	Irrigated
7.	No of Trials	05
8.	Performance Indicator / Parameter	<ul style="list-style-type: none"> <li>• Technical observation <ul style="list-style-type: none"> <li>I. Time/unit area (100 sq meter area)</li> <li>II. Physiological stress <ul style="list-style-type: none"> <li>a. Heart rate</li> <li>b. Body Pain</li> </ul> </li> <li>III.BC ratio</li> </ul> </li> <li>Farmer reaction <ul style="list-style-type: none"> <li>• Feed back</li> </ul> </li> </ul>
9.	Plan Of Action	One short duration training at adopted village
10.	Cost of each location	--

**OFT 15. Assessment of Hanging sieve for Drudgery reduction and efficiency enhancement of farm women involved in Cleaning and Grading of Wheat**

SNo.	Particular	Detail
1.	Title of On Farm Trial	Assessment of Hanging sieve for Drudgery reduction and efficiency enhancement of farm women involved in Cleaning and Grading of Wheat
2.	Problem Diagnosed	Low efficiency and high drudgery of Farm Women due to Cleaning and Grading of Wheat by Traditional Sieve in sitting position
3.	Thematic Area	Drudgery Reduction
4.	Details of Technology Selected for Assessment	T1: Use of traditional sieve. T2: Use of hanging sieve.
5.	Source of Technology	CIAE, Bhopal,2098
6.	Farming / Enterprise Situation	Irrigated
7.	No of Trials	05
8.	Performance Indicator / Parameter	<ul style="list-style-type: none"> <li>• Technical observation</li> <li>• Quantity cleaned(kg/hr)</li> <li>• Heart rate</li> <li>• Energy Expenditure</li> <li>• Muscular stress</li> <li>• Frequency of Postural change</li> <li>• Economic Indicators               <ul style="list-style-type: none"> <li>- CB Ratio</li> <li>Farmer reaction</li> <li>Feed back</li> </ul> </li> </ul>
9.	Plan of Action	One short duration training at adopted village

### 3.1 DEMONSTRATION

S.No.	Crop/Season	Thematic Area	Technology for demonstration	Critical Input Required	Season & Year.	Area (ha)	No of Farmers/ Demons.	Parameters Identified
A.	<i>Crop Production</i>							
1.	Paddy	Weed mgt.	Weed control through Bispyribac Sodium 10% SC (Nominee gold) @80 gm/ acre	Bispyribac Sodium 10% SC (Nominee gold) @ 80 gm/ acre	Kharif 2022	4.0	10	Yield, Disease & B.C.Ratio
2.	Mustard	ICM	Seed + Sulphar (SSP) + thinning	Seed of RH 406/RH 749 @ 5 kg/ha + SSP	Rabi- 2022	4.0	10	--do--
3.	Wheat	Weed mgt.	Chemical weed control for broad & narrow leaves weeds	Weedicide Atlantis (Mesosulfuron + idosulfuron) @ 160 gm/acre	Rabi 2022	4.0	10	Yield& B.C.Ratio
4.	Wheat	Water mgt.	Water conservation through Hydrogel	Hydrogel @1kg/acre	Rabi 2022	2.0	5	Saving of irrigation & Yield
5.	Sugarcane	Weed mgt.	Chemical weed control of Cyperus rotendus	Weedicide Halosulfuron Methyl 75 % WG @ 36 gm/acre (After first irrigation 25-35 DAS)	Zaid 2022	4.0	10	Yield& B.C.Ratio
6.	Sugarcane	Water mgt.	Water conservation through soil moisture indicator	Soil moisture indicator	Zaid 2022	2.0	5	Saving of irrigation & Yield
					<b>Total</b>	<b>20.0</b>	<b>50</b>	
B.	<i>Horticulture</i>							
7.	Cauliflower	To demonstrate Yield Potential	HYV - G.S- 75	Seed of G.S- 75	Rabi- 2022	0.2	5	Yield, Disease & B.C.Ratio
8.	Onion	Maximum Prod.	HYV – Agrifound Light Red	Seed of Agrifound Light Red	Rabi 2022	0.4	5	Yield (q/ha)
9.	French bean	--do--	HYV- Falguni /Pencil no. 66	Seed of Falguni/ Pencil no. 66	Rabi 2022	0.4	5	Yield, Disease & B.C.Ratio

10.	Chilli	--do--	HYV- Solder	Seed of Solder	Zaid 2022	0.2	5	Yield, Disease & B.C.Ratio
					<b>Total</b>	<b>1.2</b>	<b>20</b>	
<b>C.</b>	<b>Plant Breeding</b>							
12.	Wheat (Timely sown)	--do--	Varietal performance of PBW723 /DBW 173	Seed of Wheat new latest variety	Rabi- 2022	4.0	10	--do--
13.	Wheat (Late)	--do--	Varietal performance of DBW 71/90	Seed of DBW 71/90	Rabi 2022	4.0	10	--do--
					<b>Total</b>	<b>8.0</b>	<b>20</b>	
<b>D.</b>	<b>Plant Protection</b>							
14.	Sugarcane	IPM	Control of Early Shoot Borer	Soil Application of Cartap Hydrochloride 4G @ 20 Kg./ha.	Zaid-2023	6.0	15	-Yield - Insect infestation -C:B ratio
15.	Sugarcane	IDM	Control of Pokka Boeing Disease	Foliar Spray of Copper Oxy- Chloride 50% WP / Chlorothalonil 75% WP @ 2.5 gm/liter of water .	Zaid-2023	6.0	15	-Yield - severity of disease -C:B ratio
16.	Wheat	IDM	Management of Loose Smut disease through chemical	Seed Treatment through Carboxin 75% WP @ 2 gm /kg of seed or Tebuconazole 2% DS@1 gm/kg seed	Rabi- 2023-24	6.0	15	-Yield - severity of disease - C:B ratio
17.	Guava	IPM	Control of Fruit Fly	Methyl Eugenol Trap @ 20 trap/ha	Kharif 2023	4.0	10	Yield - Insect infestation CB ratio.
					<b>Total</b>	<b>18.0</b>	<b>55</b>	
<b>E.</b>	<b>Soil Science</b>							
18	Paddy	INM	Precision utilization of nutrients as per soil health card for paddy production	Mono Zinc @ 12.5 kg/ha + Sulphur 80 WDG @ 5.0 kg/ha+ Ferrous Sulphate @ 25 kg/ha+ As per soil test base	Kharif 2023	4.0	10	Yield and & yield attribute



				recommendation				
19..	Wheat	INM	Soil health card based nutrient application	Mono Zinc @ 12.5 kg/ha + Sulphur 80 WDG @ 5.0 kg/ha+ Ferrous 25 kg/ha & other as per recommendation	Rabi 2023	4.0	10	Yield and & yield attribute
20.	Sugarcane	SSNM	Site Specific Nutrient Management to improve productivity of Sugarcane	Basal Zn 22 % @ 25 kg/ha, Fe@ 25 kg/ha, S @ 50 DP kg/ha , B (Granular) @ 5 kg/ha Standing crop Mono Zn @ 12.5 kg/ha and S 80 WP@ 5 kg/ha, Some more as per soil test based	Zaid 2023	4.0	10	Yield and & yield attribute
					<b>Total</b>	<b>12.0</b>	<b>30</b>	
<b>F.</b>	<b>Animal Science</b>							
21.	Makkhan Ghass( higher green fodder yield)	Fodder Prod.	Popularization of green fodder production	Seed	Rabi 2022	1.34	10	Yield of green fodder
					<b>Total</b>	<b>1.34</b>	<b>10</b>	
<b>G.</b>	<b>Home Science</b>							
22.	Tomato	Value addition	Making of Tomato puree/sauce to avoid post harvest losses.	Tomato, vinegar	Rabi 2022	10 Unit	10	Shelf life, Economics(Comparison of value against Market products
23.	Nutritive kitchen Garden	Nutritional security	Introduction of Nutritive kitchen Garden	Vegetable seeds & fruit saplings	Rabi 2022	10units	<b>10</b>	Vegetable & fruits production from kitchen garden
					<b>Total</b>	<b>20 Unit</b>	<b>20</b>	

ii) **Livestock Enterprises**

**FLD – Seasons: Kharif (2022)**

S.No.	Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
25.	Buffalo Calves	Local	15	30	Albomar Syp. 30 ml vial@ Rs. 35/ per bolus	- Survival percentage - General health	Survival percentage	Survival percentage
26.	Cattle	CB	10	20	Exinot Sol. 30 ml @ Rs. 135/ 30 ml vial	- Cured percentage - General health	Cured percentage	Cured percentage
27.	Buffalo	Local	05	10	Urea + Wheat Straw	- General Health - Conception %	Conception %	Conception %
		<b>Total</b>	<b>30</b>	<b>60</b>				

**FLD - Seasons: Rabi (2022)**

S.No.	Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated	
							Demon.	Local check
28.	Cattle Calves	CB	15	30	Albomar Syp. 30 ml vial@ Rs. 35/ per bolus	- Survival ercentage - General health	Survival percentage	Survival percentage
29.	Goat	Local	05	50	Albomar Syp. 30 ml vial@ Rs. 35/ per bolus	- Survival percentage - General health	Survival percentage	Survival percentage
31.	Buffalo	Local	10	20	Exinot Sol. 30 ml @ Rs. 135/ 30 ml vial	- Cured percentage - General health	Cured percentage	Cured percentage
		<b>Total</b>	<b>30</b>	<b>100</b>				

### 3.6 Training (Including the sponsored and FLD training programmes):

#### a. ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	--	20	--	20	--	--	20
Cropping Systems	01	--	20	--	20	--	--	20
Water management	03	52	--	52	08	--	08	60
Seed production	05	94	--	94	06	--	06	100
<b>Total</b>	<b>10</b>	<b>146</b>	<b>40</b>	<b>146</b>	<b>54</b>	<b>0</b>	<b>14</b>	<b>200</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	01	18	--	18	02	--	02	20
Protective cultivation (Green Houses, Shade Net etc.)	01	18	--	18	2	--	2	20
<b>b) Fruits</b>								
Layout and Management of Orchards	01	18	--	18	02	--	02	20
Cultivation of Fruit	02	36	--	36	04	--	04	40
<b>c) Tuber crops</b>								
Production and Management technology	03	55	--	55	5	--	5	60
Processing and value addition	01	18	--	18	02	--	2	20
<b>Total</b>	<b>9</b>	<b>163</b>	<b>0</b>	<b>163</b>	<b>17</b>	<b>0</b>	<b>17</b>	<b>180</b>
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	--	18	02	--	02	20
Integrated Nutrient Management	02	36	--	36	04	--	04	40
Nutrient Use Efficiency	01	18	--	18	2	--	2	20
<b>Total</b>	<b>4</b>	<b>72</b>	<b>0</b>	<b>72</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>80</b>
<b>IV Livestock Production and Management</b>								
Disease Management	03	48	--	48	12	--	12	60
Feed management	02	33	--	33	07	--	07	40
<b>Total</b>	<b>05</b>	<b>81</b>	<b>--</b>	<b>81</b>	<b>20</b>	<b>--</b>	<b>20</b>	<b>100</b>
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	--	18	18	--	2	2	20
Designing and development for high nutrient efficiency diet	01	--	18	18	--	02	02	20
Value addition	02	--	36	36	--	04	04	40
Health & Hygiene	01	--	18	18	--	02	02	20
Women and child care								
<b>Total</b>	<b>05</b>	<b>--</b>	<b>90</b>	<b>90</b>	<b>--</b>	<b>10</b>	<b>10</b>	<b>100</b>
<b>TOTAL (A)</b>	<b>38</b>	<b>642</b>	<b>40</b>	<b>642</b>	<b>118</b>	<b>0</b>	<b>78</b>	<b>760</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	12	--	12	03	--	03	15
Bee-keeping	01	13	--	13	02	--	02	15
Seed production	01	15	--	15	--	--	--	15
Vermi-culture	02	25	--	25	05	--	05	30
Value addition	01	--	05	05	--	05	05	10
Poultry production	01	10	--	10	5	--	5	15
Tailoring and Stitching	01	--	05	05	--	05	05	10

Rural Crafts	02	--	10	10	--	10	10	20
<b>TOTAL (B)</b>	<b>10</b>	<b>75</b>	<b>20</b>	<b>95</b>	<b>15</b>	<b>20</b>	<b>35</b>	<b>130</b>
<b>(C) Extension Personnel</b>	--	--	--	--	--	--	--	--
<b>TOTAL ©</b>	--	--	--	--	--	--	--	--
<b>Grand Total (A+B+C)</b>	<b>48</b>	<b>717</b>	<b>60</b>	<b>737</b>	<b>133</b>	<b>20</b>	<b>113</b>	<b>890</b>

**b. OFF Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	20	--	20	--	--	--	20
Cropping Systems	01	20	--	20	--	--	--	20
Crop Diversification	01	20	--	20	--	--	--	20
Water management	04	78	--	78	02	--	02	80
Seed production	06	115	--	115	05	--	05	120
Nursery management	01	20	--	20	--	--	--	20
<b>Total</b>	<b>14</b>	<b>273</b>	<b>0</b>	<b>273</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>280</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	03	57	--	57	3	-	3	60
<b>b) Fruits</b>								
Layout and Management of Orchards	02	36	--	36	04	--	04	40
Micro irrigation systems of orchards	01	18	--	18	2	--	2	20
<b>c) Ornamental Plants</b>								
Others	02	36	--	36	04	--	04	40
<b>d) Tuber crops</b>								
Production and Management technology	01	20	--	20	--	--	--	20
<b>Total</b>								
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	--	18	2	--	2	20
Soil and Water Conservation	01	17	--	17	3	--	3	20
Integrated Nutrient Management	01	18	--	18	2	--	2	20
Production and use of organic inputs	02	35	--	35	5	--	5	40
Micro nutrient deficiency in crops	01	17	--	17	3	--	3	20
Nutrient Use Efficiency	01	18	--	18	2	--	2	20
Soil and Water Testing	01	17	--	17	3	--	3	20
<b>Total</b>	<b>08</b>	<b>137</b>	<b>--</b>	<b>137</b>	<b>23</b>	<b>--</b>	<b>23</b>	<b>160</b>
<b>IV Livestock Production and Management</b>								
Dairy Management	02	35	--	35	5	--	05	40
Disease Management	04	69	--	69	11	--	11	80
<b>Total</b>	<b>06</b>	<b>104</b>		<b>104</b>	<b>16</b>	<b>--</b>	<b>16</b>	<b>120</b>
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	--	18	18	--	02	02	20
Design and development of low/minimum cost diet	01	--	18	18	--	02	02	20
Minimization of nutrient loss in processing	01	--	18	18	--	02	02	20
Gender mainstreaming through SHGs	01	--	18	18	--	02	02	20

Storage loss minimization techniques	01	--	18	18	--	02	02	20
Value addition	02	--	36	36	--	04	04	40
Location specific drudgery reduction technologies	02	--	36	36	--	4	4	40
Food Hygiene	01	--	18	18	--	02	02	20
<b>Total</b>	<b>10</b>		<b>180</b>	<b>180</b>		<b>20</b>	<b>20</b>	<b>200</b>
<b>VI Plant Protection</b>								
Integrated Pest Management	06	110	--	110	10	--	10	120
Integrated Disease Management	03	57	--	57	03	--	03	60
<b>Total</b>	<b>09</b>	<b>167</b>	<b>--</b>	<b>167</b>	<b>13</b>	<b>--</b>	<b>13</b>	<b>180</b>
<b>TOTAL(A)</b>	<b>56</b>	<b>848</b>	<b>180</b>	<b>1028</b>	<b>72</b>	<b>20</b>	<b>92</b>	<b>1120</b>

<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	12	--	12	3	--	3	15
Vermi Culture	01	15	--	15	--	--	--	15
Nursery Management of Horticulture crops	01	11	--	11	04	--	04	15
Dairying	01	08	--	08	02	--	02	10
<b>TOTAL (B)</b>	<b>4</b>	<b>50</b>		<b>50</b>	<b>10</b>		<b>20</b>	<b>60</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	05	50	--	50	00	--	00	50
Integrated Pest Management	05	60	--	60	15	--	15	75
Soil and water testing	02	20	--	20	--	--	--	20
Soil and water conservation	02	20	--	20	--	--	--	20
Rejuvenation of old orchards	01	10	--	10	--	--	--	10
Management in farm animals	03	26	--	26	04	--	04	30
Household food security	01	--	5	5	--	5	5	10
Women and Child care	02	--	10	10	-	10	10	20
Low cost and nutrient efficient diet designing	01	--	5	5	--	5	5	10
Flower Cultivation	01	10	--	10	--	--	--	10
Orchard mgt.	01	10	--	10	--	--	--	10
<b>TOTAL ©</b>	<b>24</b>	<b>206</b>	<b>20</b>	<b>226</b>	<b>20</b>	<b>20</b>	<b>39</b>	<b>265</b>
<b>Grand Total (A+B+C)</b>	<b>84</b>	<b>1104</b>	<b>200</b>	<b>1304</b>	<b>101</b>	<b>40</b>	<b>141</b>	<b>1445</b>

### C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	20	--	20	--	--	--	20
Cropping Systems	01	20	--	20	--	--	--	20
Crop Diversification	01	20	--	20	--	--	--	20
Water management	07	130	--	130	10	--	10	140
Seed production	11	209	--	209	11	--	11	220
Nursery management	01	20	--	20	--	--	--	20
<b>Total</b>	<b>22</b>	<b>420</b>	<b>0</b>	<b>420</b>	<b>22</b>	<b>0</b>	<b>22</b>	<b>440</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	04	75	--	75	05	--	05	80
<b>b) Fruits</b>								

Layout and Management of Orchards	03	54	--	54	06	--	06	60
Cultivation of Fruit	02	36	--	36	02	--	02	40
Micro irrigation systems of orchards	01	18	--	18	02	--	02	20
<b>c) Ornamental Plants</b>								
Others	02	36	--	36	04	--	04	40
<b>d) Tuber crops</b>								
Production and Management technology	04	75	--	75	05	--	05	80
Honey processing	01	18	--	18	02	--	02	20
<b>Total</b>	<b>17</b>	<b>312</b>	<b>0</b>	<b>312</b>	<b>26</b>	<b>0</b>	<b>26</b>	<b>340</b>
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	--	18	2	--	2	20
Soil and Water Conservation	01	17	--	17	3	--	3	20
Integrated Nutrient Management	03	54	--	54	6	--	6	60
Production and use of organic inputs	01	17	--	17	3	--	3	20
Micro nutrient deficiency in crops	02	35	--	35	5	--	5	40
Nutrient Use Efficiency	02	36	--	36	4	--	4	40
Soil and Water Testing	02	36	--	36	4	--	4	40
<b>Total</b>	<b>12</b>	<b>223</b>		<b>223</b>	<b>27</b>	<b>--</b>	<b>27</b>	<b>240</b>
<b>IV Livestock Production and Management</b>								
Dairy Management	02	35	--	35	05	--	05	40
Disease Management	07	117	--	117	23	--	23	140
Feed management	02	33	--	33	07	--	07	40
<b>Total</b>	<b>11</b>	<b>185</b>	<b>--</b>	<b>185</b>	<b>35</b>	<b>--</b>	<b>35</b>	<b>220</b>
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	2	--	36	36	--	4	4	40
Design and development of low/minimum cost diet	1	--	18	18	--	2	2	20
Designing and development for high nutrient efficiency diet	1	--	18	18	--	2	2	20
Minimization of nutrient loss in processing	1	--	18	18	--	2	2	20
Storage loss minimization techniques	1	--	18	18	--	2	2	20
Value addition	4	--	70	70	--	10	10	80
Location specific drudgery reduction technologies	2	--	36	36	--	4	4	40
Credit Mgt through SHG	1	--	18	18	--	2	2	20
Health & Hygiene	02	--	36	36	--	4	4	40
<b>Total</b>	<b>15</b>	<b>--</b>	<b>268</b>	<b>268</b>	<b>--</b>	<b>32</b>	<b>32</b>	<b>300</b>
<b>VII Plant Protection</b>								
Integrated Pest Management	08	146	--	146	14	--	14	160
Integrated Disease Management	04	72	--	72	08	--	08	80
<b>Total</b>	<b>12</b>	<b>228</b>	<b>--</b>	<b>228</b>	<b>22</b>	<b>--</b>	<b>22</b>	<b>240</b>
<b>Grand Total</b>	<b>89</b>	<b>1347</b>	<b>268</b>	<b>1615</b>	<b>131</b>	<b>32</b>	<b>163</b>	<b>1780</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	02	24	--	24	6	--	6	30
Bee-keeping	01	13	--	13	02	--	02	15
Seed production	02	28	--	28	02	--	02	30
Vermi-culture	02	25	--	25	5	--	05	30

Nursery Management of Horticulture crops	01	11	--	11	4	---	4	15
Value addition	01	--	10	10	--	5	5	15
Dairying	01	08	--	08	02	--	02	10
Poultry production	01	08	--	08	02	--	02	10
Tailoring and Stitching	01	--	10	10	--	5	5	15
Rural Crafts	02	--	20	20	--	10	10	30
<b>TOTAL</b>	<b>14</b>	<b>117</b>	<b>40</b>	<b>157</b>	<b>23</b>	<b>20</b>	<b>43</b>	<b>200</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	05	50	--	50	--	--	--	100
Integrated Pest Management	05	60	--	60	15	--	15	75
Soil and water testing	02	20	--	20	--	--	--	20
Soil and water conservation	02	20	--	20	--	--	--	20
Rejuvenation of old orchards	01	10	--	10	--	--	--	10
Protected cultivation technology	02	30	--	30	--	--	--	30
Management in farm animals	03	26	--	26	04	--	04	30
Household food security	01	--	5	5	--	5	5	10
Women and Child care	02	--	10	10	-	10	10	20
Low cost and nutrient efficient diet designing	01	--	5	5	--	5	5	10
Flower Cultivation	01	10	--	10	--	--	--	10
Orchard mgt.	01	10	--	10	--	--	--	10
<b>TOTAL ©</b>	<b>24</b>	<b>206</b>	<b>20</b>	<b>226</b>	<b>20</b>	<b>20</b>	<b>39</b>	<b>265</b>
Grand Total	<b>127</b>	<b>1670</b>	<b>328</b>	<b>2098</b>	<b>173</b>	<b>72</b>	<b>245</b>	<b>2245</b>

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	472	10	482	--	--	--	472	10	482
Kisan Mela	02	500	100	600	--	--	--	500	100	600
Kisan Gosthi	15	3220	50	3270	--	--	--	3220	50	3270
Exhibition	02	650	--	650	50	--	50	700	--	700
Film Show	04	400	--	400	--	--	--	--	--	400
Farmers Seminar	16	132	--	128	--	--	--	132	--	128
Workshop	04	76	14	90	--	--	--	76	14	90
Group meetings	2	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	24	244	20	264	--	--	--	244	20	264
Newspaper coverage	20	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	10	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	12	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
<b>Advisory Services</b>										
Scientific visit to farmers field	600	1580	--	1580	--	--	--	1580	--	1580
Farmers visit to KVK	600	1250	50	1300	--	--	--	1250	50	1300
Diagnostic visits	50	135	5	140	8	2	10	143	7	150
Exposure visits	02	100	--	100	--	--	--	100	--	100
Ex-trainees Sammelan	08	160	10	170	--	--	--	160	10	170

Soil health Camp	04	80	02	82	-	-	-	80	02	82
Animal Health Camp	01	225	--	225	--	--	--	225	--	225
Agri mobile clinic	03	155	05	160	--	--	--	155	05	160
Farm Science Club Conveners meet		--	132	132	--	--	--	--	132	132
Self Help Group Conveners meetings	15	-	54	54	--	--	--	-	54	54
Mahila Mandals Conveners meetings	04	675	35	710	--	--	--	675	35	710
Celebration of important days (specify)	04	100	--	100				100	--	100
Krishi Mohostva	01	500	20	520	10	--	10	510	20	530
Krishi Rath										
Pre Kharif workshop	01	400	15	415	20	--	20	420	15	435
Pre Rabi workshop	01	400	15	415	20	--	20	420	15	435
PPVFRA workshop	01	100	--	100	05	--	05	105	--	105
Any Other (Specify)										
PMFBY Sammelan	01	350	50	400	20	--	20	420	50	470
Soil Health Cards distribution	3000	1000	--	1000	--	--	--	1000	--	1000
<b>Total</b>	<b>4427</b>	<b>12894</b>	<b>587</b>	<b>13477</b>	<b>133</b>	<b>2</b>	<b>135</b>	<b>12677</b>	<b>589</b>	<b>13662</b>

### 3.5 Target for Production and supply of Technological products

#### Seed Materials (Farmer's Participatory Seed Production)

Sl. No	Crop	Variety	Quantity (Qt)
<b>Cereals</b>			
1	Wheat (6 ha)	WH 1105	250 qt

#### Planting Material

Sl. No	Crop	Variety	Quantity (Nos)
<b>Vegetables</b>			
1	Tomato	Pusa Hybrid 2	7000
2	Brinjal	Pusa Purple long	5000
3	Chillies	Bio Marshal	5000
4	Cauliflower	Shweta	1500
5	Cabbage	G Ball - 65	1500
6	Onion	Agri found light red.	5000
<b>Fruit plants</b>			
1	Papaya	Pusa Nanha	2500
2.	Banana	G 9	500
		<b>Total</b>	<b>28000</b>

#### Bio-products & Others

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>Bio fertilizer</b>				
1	Vermi Compost	--	--	500



2	Worms	<i>Aisenia Foetida</i>	--	50
3.	Honey Processing	--	--	2000
4.	Bio- Pesticide	<i>Trichoderma viride</i> <i>Beauveria bassiana</i> <i>Metarrhizium anisoplae</i>	--	100 100 100
5.	Spawn	Button & oyster	--	100

### 3.6. Literature to be Developed/Published

(A) Krishi Panchang : 1000

(B) Literature developed/published :

Item	No.	Number of copies
Research papers	5	--
Technical reports	10	--
News letters	--	--
Technical bulletins	3	2500
Popular articles	20	--
Extension literature	8	8000
Others (Krishi Panchang)	01	1000
<b>TOTAL</b>	<b>49</b>	<b>11500</b>

(C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Management of Mango	1
		Scientific cultivation of Gladiolus	1
		Vermi Compost	1
		Nursery Management	1

### 3.7. Success stories/Case studies identified for development as a case : 05

1. Fruit Fly mgt through Methyl Ugenol flytrap
2. Urd Intercropping with Sugarcane
3. Introduction of Mung as summer pulse
4. Self Employment of Rural Youths through Mushroom cultivation
5. Self Help Group of Rural Women for income generating activity
6. Nutrient mgt. through Soil Health Card (SHC)

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

3.8. Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women - PRA
- Rural Youth - PRA
- In service personnel - As per requirement

**3.9** Indicate the methodology for identifying OFTs/FLDs -  
**For OFT**

1. Field level observations
2. Farmer group discussions
3. Spread of Problem (Area and No of Farmers)

**For FLD**

- xxxix) New variety/technology
- xl) Poor yield at farmers level
- xli) Existing cropping system

**3.10 Field activities**

**i. Name of villages identified for adoption with block name**

S.No.	Block	Village
1.	Baghra	Narottampur., Salhakheri
2.	Shahpur	Sohjani Tagan, Kamalpur
3.	Charthawal	Dudhali, Rohana kala, Badhai Kala

ii. No. of farm families selected per village : 100 each

iii. No. of survey/PRA to be conducted : 04

iv. No. of technologies taken to the adopted villages :  
 3-4 technologies by each scientist

v. Name of the technologies found suitable by the farmers of the adopted villages : To be taken up next year

vi. Impact (production, income, employment, area/technological–horizontal/vertical) : To be taken up next year

vii. Constraints if any in the continued application of these improved technologies : To be taken up next year

**3.11. Activities of Soil and Water Testing Laboratory**

Status of Establishment of Lab : Completed & running

1. Year of Establishment : April 2007

2. List of Equipments purchased with amount :

Sl.No.	Name of the Equipment	Qty	Cost.
1.	Conductivity meter (Elco)	1	8750.00
2.	Mechanical Shaker	1	52700.00
3.	Lab Will mill grinder with accessories	1	22530.00
4.	Gas connection	1	4746.00
5.	AC with Stabilizer	1	20550.00
6.	Furniture (Almirah, Table, Chair etc)	--	29600.00
7.	Physical balance	1	12090.00
8.	Single Pan balance	1	87000.00
9.	Laboratory Hot air oven	1	14500.00
10.	Refrigerator with Stabilizer	1	12000.00
11.	Kjeldahl Distillation Apparatus	2	13400.00
12.	Kjeldahl Distillation Apparatus	2	30000.00
13.	Microscope	1	4600.00
14.	Spectrophotometer	1	106500.00
15.	Flame Photometer	1	33430.00
16.	pH meter	1	10350.00
17.	Heating plate	1	8200.00
18.	Water distillation unit	1	85000.00
20.	Chemical Glassware	--	291000.00
20.	Mrida Parikshak	1	72500.00

Note: One Pusa STFR Meter has been donated by IARI to KVK Muzaffarnagar

### 3. Target for samples for analysis :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be Realized
Soil sample (Macro Nutrient)	1500	1000	20	75000.00
Soil sample (Micro Nutrient)	1000	2500	20	150000.00
<b>Total</b>	<b>2500</b>	<b>3500</b>	<b>40</b>	<b>225000.00</b>

## 4.0 LINKAGES

### 4.1. Functional Linkages with different Organizations :

S. No.	Name of organization	Nature of Linkages	No. of Prog.
1.	Agriculture Department	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela. Demo	100
2.	Horticulture Department	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	20
3.	Animal Husbandry Deptt.	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	10
4.	Plant Protection Deptt.	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	10
5.	ATMA	Farmers Scientist Interaction, Trg., Goshthi, Kisan Mela, Exposure visit	30
6.	Sugarcane Research Institute	Participation in Meeting, Source of Planting material,	1
7.	Ganna Kisan Sansthan	Training Programme	8
8.	IFFCO, KRIBHCO, NFL, etc.	Training Programme & Demo. Gosthies	6
9.	National Horti. Dev. Foundation	Training Programme & Demo.	2

10.	Sugar mills	Participation in Kisan Goshthi, Kisan Mela.	4
11.	NGO's	Training Programme, Gosthi & Mela	5
12.	NABARD, Banks	Training Programme, Kisan Club/SHG	12
13.	Ramganga Command Pariyojana	Training Programme	8
14.	Zila Vigyan Club	Training , Gosthies & Kisan Mela	4
15.	Bhoomi Sanrakshan Adhikari	Training	4
16.	Seed Development Corp.	Training,Seed production	4
17.	Distt. Cane Deptt.	Training, Kisan Mela, & Gosthi	5
18.	CDPO	Training Programme	3

#### 4.2 Special programme to be undertaken by KVK with finance by State/ Other Agencies

Name of Scheme	No of Programme	Funding agency
FTT	2	SVPUA&T, Meerut
ATMA (F-S Interaction)	2	Dept of Agril., MZN
NHM (Trg. )	4	Dept of Horticulture ,MZN

#### 4.3 Details of Linkages with ATMA

Is ATMA implemented in your district : Yes

#### 4.4 Programmes to be implemented under National Horticulture Mission

Sl.No	Programme	Nature of Linkages	Remarks
1.	Training Programme - 4	Technical	--

#### 4.5. Nature of linkages with National Fisheries Board

Sl.No	Programme	Nature of Linkages	Remarks
1.	Training	Technical	--

#### 5.0 Utilization of hostel facilities : Complete

Accommodation available (No. of beds) : 22

Months	No. of programmes	Trainee days (days stayed)
January 2022	03	20
February 2022	02	15
March 2022	03	22
April 2022	02	25
May 2022	02	20
June 2022	03	24
July 2022	04	22
Aug., 2022	03	20
Sept., 2022	04	22
Oct., 2022	04	20
November 2022	03	17
December 2022	05	16

**6. Convergence with departments :**

**7.1. Details of the programmes being implemented by your KVK in partnership with other institution**

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)
1	Efficient Groundwater Management for enhancing adaptive capacity to climate change in sugarcane based farming system in Muzaffarnagar	Ministry of Agriculture & Farmers Welfare , Govt. of India <b>KVK Involvement- Capacity Building &amp; Technology Demonstration</b>	2014-15 to 2017-18	4.69 Crore
2.	Skill Development Training	Agril. Skill Council of India (ASCI)	2018-20	--

**A. Designated as Local Coordinator by DDG, NRM, ICAR for collaborative with Implementing ICAR Institutes. The ICAR Institutes involved are as under.**

- Indian Institute of Water Management, Bhubaneswar, Odisha
- Indian Institute of farming System Research, Modipuram
- Water Technology Center, IARI, Pusa New Delhi
- Central Soil & Water Conservation Research & Training Institute, Dehradun
- Central Soil Salinity Research Institute Karnal
- Central Institute for Research on Cattle, Meerut

**B. Technology Demonstration in Collaboration with ICAR Institutes . The collaborative partners are as under**

- Indian Institute of Wheat and Barley, Karnal
- Indian Institute of Mustard Research, Bharatpur (Rajasthan)
- Central Avian research Institute (CARI, Bareilly)
- Mushroom Spawn Lab, SVPUA&T, Meerut

**7.2. Brief achievements of above collaborative programmes**

S. No.	Name of Programme	Salient achievement	Impact of the programme		
<b>1</b>	<b>The details are as given below</b>				
S.No	Name of Institute	Crop	Technology/Variety	Area (ha).	No of Demo
1.	Directorate of Mustard Research , Bharatpur Rajasthan	Mustard	NRCHB-101, RH-406	40.00	104
2.	IIWBR, Karnal	Wheat (Timely Sown)	WH 1105	7.0	11
		Wheat (Late Sown)	DBW-16 & DBW-71	1.3	13

**8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period**

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	TSP Project	NA	
2	ARYA Project	Entrepreneurship development Bee Keeping & Poultry Farming	
3	CFLD-NFSM Project	Separate Report is attached	
	i. Kharif season	Urd- 20 ha – 50 Demo.	
	ii. Rabi season	Lentil – 10 ha- 25 Demo	
	iii. Summer season	Urd- 10 ha – 25 Demo. Mung- 10 ha- 25 Demo.	
4	CSISA Project	NA	
5	NICRA Project	Separate Report Attached	
6	Soil Health Card		
7	Other (please specify)		
	Total		

**9. Feedback of the farmers about the technologies demonstrated and assessed :**

- RH 749 variety of Mustard gave highest yield of 24 qt/ha when planted on 25th Oct.
- PL 8 variety of Lentil performed better in moisture stress condition.
- PU 31 variety of Urd Bean is best in terms of yield and resistant against YMV
- Soil test based fertilizer application resulted in saving of Rs. 1400-1500 /ha.
- Soil Moisture Indicator (SMI) based irrigation scheduling resulted in saving of 3-4 irrigation in Sugarcane.
- PB 1509 transplanted in first week of August gave better quality rice in comparison to June transplanting.
- Mineral mixture supplementation is able to cure repeat breeding

**10. Feedback from the KVK Scientists (Subject wise) to the research institutions /universities :**

- Control of *Cyprus rotundas* with 67.5 g Hulosulfuron at 3-4 leaf stage is very effective in Sugarcane.
- Fruity fly trap in Guava is able to control only 80% of flies
- DBW 71 variety of Wheat performed best in campaign to other late sown varieties when sowing was done between 15-20 January after Sugarcane harvesting
- Agri found light red variety of onion performed best in terms of yield and keeping quality in comparison to other prevailing local varieties.
- Chabro strain best for backyard poultry.

**ANNEXURE – I**

**DETAIL ACTION PLAN OF TRAINING JANUARY TO DECEMBER 2022**

**i). FARMERS/ FARM WOMEN**

**a). On Campus Training for Practicing Farmers& Farm Women :**

Date	Client	Title of Training Programme	Duration (days)	Venue (Off/ On Campus )	No of Participants			No of SC/ST		Total
					M	F	Total	M	F	
<b>Ist Quarter</b>										
<b>Crop Production</b>										
Jan 22	PF	Ratoon management in Sugarcane	01	ON	17	--	17	3	--	3
March-22	PF	Integrated weed mgt. in sugarcane	01	ON	18	--	18	2	--	2
<b>Plant Breeding</b>										
Jan 22	PF	<i>Seed production technique of sugarcane</i>	01	ON	17	--	17	3	--	3
Feb 22	PF	<i>Importance &amp; procedure of rouging in Wheat for seed production</i>	01	ON	17	--	17	3	--	3
<b>Horticulture</b>										
Feb. 22	PF	Bittergaurd production technology	01	ON	18	--	18	2	--	2
March 22	PF	Honey Processing technique	01	ON	18	--	18	2	--	2
<b>Plant Protection</b>										
Feb. 22	PF	Biological Management of Termite and white grub in sugarcane	01	ON	18	--	18	2	--	2
<b>Soil Science</b>										
17 Jan 22	PF	Site Specific Nutrient Management a approach in Sugarcane cultivation	01	ON	17	--	17	3	--	3
<b>Animal Science</b>										
Jan 22	PF	FMD: Its causes, symptoms & prevention	01	ON	15	-	15	5	-	5
Feb. 22	PF	Feed supplement for more milk production	01	ON	15	-	15	5	-	5
<b>Home Science</b>										
Feb 22		Kitchen Garden -Key to health	01	ON	--	18	18	--	02	20
<b>IInd Quarter</b>										
<b>Crop Production</b>										
April 22	PF	Alternate irrigation mgt. in s.cane	01	ON	20	--	20	--	--	--

<b>Plant Protection</b>										
April 22	PF	Use of Bio-pesticides in organic farming	01	ON	18	--	18	2	--	2
June 22	PF	IPM in Basmati rice.	01	ON	18	--	18	2	--	2
<b>Plant Breeding</b>										
April 22	PF	<i>Seed production technique of Urd</i>	<i>01</i>	<i>OFF</i>	<i>20</i>	<i>--</i>	<i>20</i>	<i>1</i>	<i>--</i>	<i>1</i>
	PF	<i>Seed production technique of Mung.</i>	<i>01</i>	<i>OFF</i>	<i>17</i>	<i>--</i>	<i>17</i>	<i>3</i>	<i>--</i>	<i>3</i>
<b>Horticulture</b>										
May 22	PF	Crop Regulation in Guava for higher income	01	OFF	20	--	20	1	--	1
June 22	PF	Kharif Onion prod. technology	01	ON	20	--	20	1	--	1
<b>Home Science</b>										
April 22	PF	Importance of Balance Nutrition	01	--	--	18	18	--	02	20
<b>Soil Science</b>										
17 May 22	PF	Management of organic matter sources to preserve fertility for better crop production	01	ON	18	--	18	2	--	2
<b>Animal Science</b>										
May 22	PF	Green fodder production around the year.	01	ON	18	-	18	2	-	2
<b>IIIrd Quarter</b>										
<b>Crop Production</b>										
July 22	PF	Water mgt. in Rice	01	ON	20	--	20	--	--	--
Sept. 22	PF	Intercropping in autumn planted Sugarcane	01	ON	20	--	20	1	--	1
<b>Horticulture</b>										
July 22	PF	Medow gardening of Guava	01	ON	20	--	20	1	--	1
Aug. 22	PF	Production technology of mango for export purpose	01	ON	20	--	20	1	--	1
<b>Plant Protection</b>										
Aug. 22	PF	Control of major insects & disease in Paddy	01	ON	18	--	18	2	--	2
<b>Plant Breeding</b>										
July 22	PF	<i>Seed Production technology of Urd</i>	<i>01</i>	<i>ON</i>	<i>18</i>		<i>18</i>	<i>2</i>	<i>-</i>	<i>2</i>
<b>Soil Science</b>										
20 July 22	PF	Management of fertilizer use efficiency in paddy production	01	ON	17	--	17	3	--	3
<b>Animal Science</b>										
July 22	PF	Prolapse: Its causes & management	01	ON	16	-	16	4	-	4
<b>Home Science</b>										
July 22	PF	Nutritional awareness to prevent Anaemia	01	--	--	18	18	--	02	20
<b>IVth Quarter</b>										
<b>Crop Production</b>										
Dec. 22	PF	Water mgt. of late sown Wheat	01	ON	20	--	20	1	--	1
Dec-22	PF	Weed management in wheat	01	ON	18	--	18	2	--	2



<b>Horticulture</b>										
Oct. 22	PF	Gladiolus cultivation for higher income	01	ON	18	--	18	2	--	2
Nov. 22	PF	Rabi Onion Production Technology	01	ON	18	--	18	2	--	2
<b>Plant Protection</b>										
Dec. 22	PF	Control of white rust and aphids in Mustard crop	01	ON	18	--	18	2	--	2
<b>Plant Breeding</b>										
Oct. 22	PF	Seed production technology of Mustard	01	ON	18	--	18	2	--	2
Nov. 22	PF	Seed production technology of Wheat	01	ON	18	--	18	2	--	2
<b>Home Science</b>										
Oct 22	PF	Value Addition of surplus milk at domestic level.	01	--	--	18	18	02	02	20
Nov 22		Value addition in Amla	01	--	--	18	18	02	02	20
<b>Soil Science</b>										
18 Oct. 22	PF	Soil health card is a tool for nutrient management in sugarcane cultivation	01	ON	18	--	18	2	--	2
<b>Animal Science</b>										
Oct. 22	PF	Anoestrous: Its causes & prevention	01	ON	17	-	17	3	-	3

ii). Off Campus Training for Practicing Farmers & Farm Women :

Date	Client	Title of Training Programme	Duration (days)	Venue (Off/ On Campus)	No of Participants			No of SC/ST		
					M	F	Total	M	F	Total
<b>Ist Quarter</b>										
<b>Crop Production</b>										
Feb.22	PF	Production technology of autumn Sugarcane	01	OFF	18	--	18	2	--	2
March 22	PF	Water mgt. in Urd & Sugarcane intercropping	01	OFF	18	--	18	2	--	2
<b>Horticulture</b>										
Jan. 22	PF	Protected cultivation of Rose	01	OFF	20	--	20	1	--	1
Feb. 22	PF	Protected cultivation of Jerbera	01	OFF	20	--	20	1	--	1
<b>Plant Breeding</b>										
Feb. 22	PF	Roughing in wheat for seed production	01	OFF	20	--	20	1	--	1
March 22	PF	Seed prod. of Sugarcane	01	OFF	20	--	20	1	--	1
March 22	PF	Seed prod. technology of Mungbean	01	OFF	18	--	18	2	--	2
<b>Plant Protection</b>										
Jan 22	PF	Pest mgt. in Natural farming	01	OFF	18	--	18	2	--	2
Mar. 22	PF	Control of rats in field	01	OFF	18	--	18	2	--	2

<b>Home Science</b>										
Feb 22	PF	<i>Water saving Techniques at Household Level</i>	01	OFF	--	18	18	--	02	02
March 22	PF	<i>Health &amp; Hygeine of Family</i>	01	OFF	--	18	18	--	02	02
March22	PF	<i>Drudgery reducing implements useful for farm women</i>	01	OFF	--	18	18	--	02	02
<b>Soil Science</b>										
27 Feb. 22	PF	Impact of soil health card to improve productivity in Zaid sugarcane cops	01	OFF	17	--	17	3	--	3
<b>Animal Science</b>										
Jan 22	PF	Major milch breed of buffalo & identification	1	Off	17	-	17	3	--	3
<b>IInd Quarter</b>										
<b>Crop Production</b>										
April 22	PF	Alternate irrigation mgt. in Sugarcane	01	OFF	18	--	18	2	-	2
May 22	PF	Paddy nursery raising techniques	01	OFF	17	--	17	3	--	3
June 22	PF	Water mgt. in Sugarcane	01	OFF	17	--	17	3	--	3
<b>Horticulture</b>										
April 22	PF	Importance of Drip Irrigation system in Fruit Crop	01	OFF	17	--	17	3	--	3
June 22	PF	Medow gardening of Guava	01	OFF	17	--	17	3	--	3
<b>Plant Breeding</b>										
<i>April 22</i>	PF	Technique of grading, processing and storage of seed	01	OFF	17	--	17	3	--	3
<i>May 22</i>	PF	Seed production technology in Paddy	01	OFF	20	--	20	--	--	--
<b>Plant Protection</b>										
May 22	PF	IPM in vegetable crops	01	OFF	17	--	17	3	--	3
<b>Home Science</b>										
May 22	PF	<i>Safe grain storage</i>	01	OFF	--	18	18	--	02	02
June 22	PF	<i>Making of Mango squash</i>	01	OFF	--	18	18	--	02	02
<b>Soil Science</b>										
25 May 22	PF	Fertilizer management to reduce cost of input for economic yield	01	OFF	18	--	18	2	--	2
28 June22	PF	Use of soil health card recommendations for paddy production	01	OFF	17	--	17	3	--	3
<b>Animal Science</b>										
April 22	PF	Bloat : Its causes,symptoms & control	01	OFF	17	-	17	3	-	3
June 22	PF	HS: Causes, symptoms & prevention	01	OFF	17	-	17	3	-	3
<b>IIIrd Quarter</b>										
<b>Crop Production</b>										
Aug. 22	PF	Prod. Technology of Mustard	01	OFF	18	--	18	2	--	2
Sept. 22	PF	Water mgt. practices for Rabi Pulses	01	OFF	18	--	18	2	--	2

<b>Horticulture</b>										
Aug. 22	PF	INM in Guava	01	OFF	20	--	20	--	--	--
<b>Plant Breeding</b>										
July 22	PF	Seed production technique of Paddy	01	OFF	18	--	18	2	--	2
Sept. 22	PF	Seed production technique in mustard .	01	OFF	20	--	20	1	--	1
<b>Plant Protection</b>										
July 22	PF	Control of major insects and diseases in sugarcane	01	OFF	20	--	20	--	--	--
Sept 22	PF	Control of diseases in Urd Crop	01	OFF	18	--	18	2	--	2
<b>Home Science</b>										
July 22	PF	Low cost Diet for farm women	01	OFF	--	18	18	--	02	02
Aug. 22	PF	Credit management through SHG for Income Generation	01	OFF	--	18	18	--	02	02
Sept.22	PF	Kitchen Gardening –A healthy way of life	01	OFF	--	18	18	--	02	02
<b>Soil science</b>										
26 July 22	PF	Soil health card based fertilizer combination from for paddy production	01	OFF	18	--	18	2	--	2
30 Aug.22	PF	Micronutrient management through symptoms appeared on paddy and sugarcane	01	OFF	17	--	17	3	--	3
<b>Animal Science</b>										
Aug. 22	PF	RFM: causes & prevention	01	OFF	17	-	17	03	-	03
<b>IV Quarter</b>										
<b>Crop Production</b>										
Nov. 22	PF	Water mgt. in timely sown Wheat	01	OFF	20	--	20	1	--	1
Dec. 22	PF	Weed mgt. in Wheat	01	OFF	20	--	20	1	--	1
<b>Horticulture</b>										
Oct. 22	PF	Potato cultivation techniques	01	OFF	20	--	20	--	--	--
<b>Plant Breeding</b>										
Oct. 22	PF	Seed production techniques of Lentil	01	OFF	20	--	20	1	--	1
Dec. 22	PF	Seed production technique of Wheat	01	OFF	18	--	18	2	--	2
<b>Plant Protection</b>										
Oct. 22	PF	Methods of crop residue management	01	OFF	20	--	20	1	--	1
Dec. 22	PF	Integrated Pest Management in Wheat Crop	01	OFF	18	--	18	2	--	2
<b>Home Science</b>										
Oct 22	PF	Drudgery reducing techniques for house hold activities	01	OFF	--	18	18	--	02	02
Dec 22	PF	Post harvest management in Rabi season vegetables	01	OFF	--	18	18	--	02	02
<b>Soil Science</b>										
25 Oct.22	PF	Integrated manure and fertilizer management to improve productivity of sugarcane & improve soil environment	01	OFF	18	--	18	2	--	2
29 Nov.22	PF	Precise utilization of nutrients as desired for crop production	01	OFF	17	--	17	3	--	3

24 Dec. 22	PF	Efficient use of fertilizer and water for sugarcane cultivation	01	OFF	18	--	18	2	--	2
<b>Animal Science</b>										
Nov. 22	PF	Care & management of calves during winter	01	OFF	18	--	18	02	--	02
Dec. 22	PF	Mastitis: Its causes & prevention	01	OFF	18	--	18	02	--	02

**ii). Vocational Training for Rural Youth  
ON Campus**

Date	Discipline	Client	Title of Training Programme	Duration (days)	Venue (Off/ On Campus)	No of Participants			No of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter</b>											
09-14 Feb. 22	Home Science	RY	Stuff Toy	06	ON	--	08	08	--	02	02
<b>IInd Quarter</b>											
May 2022	Home Science	RY	Rural Craft	8	ON	-	13	13	--	02	02
<b>IIIrd Quarter</b>											
Sept. 22	Animal Science	RY	Scientific broiler farming	05	ON	08	-	08	02	-	02
Sept. 22	Plant Breeding	RY	Seed production technique of Mustard	06	ON	13	--	13	02	--	02
1-30 July 22	Home Science	RY	Stitching for Self Employment	30	ON	--	08	08	--	2	02
<b>IVth Quarter</b>											
Oct 2022	Crop Production	RY	Vermi compost production technique & marketing	06	ON	13	--	13	2	--	2
Oct 2022	Plant Protection	RY	Mushroom Production technology	06	ON	17	--	17	03	--	03
Nov. Dec. 22	Plant Breeding	RY	Seed prod. Of Wheat	06	ON	15	--	15	--	--	--
10-16 Nov. 22	Home Science	RY	Value Addition of Fruit & Vegetables	06	ON	--	08	08	--	02	02

**OFF CAMPUS TRAINING PROGRAMME OF RURAL YOUTH:**

<b>Ist Quarter</b>											
Feb. 22	Crop Production	RY	Vermi compost production technique & marketing	06	OFF	12	-	12	3	-	3
<b>IIIrd Quarter</b>											
July 22	Horticulture	RY	Vegetable nursery raising techniques	06	OFF	11	--	11	4	--	4
<b>IVth Quarter</b>											
Nov. 22	Animal Science	RY	Scientific dairy farming	05	OFF	08	-	08	02	-	02

### iii). Training Programme of Extension Functionaries

Date	Discipline	Client	Title of Training Programme	Duration (days)	Venue (Off/ On Campus)	No of Participants			No of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter</b>											
Feb. 22	Crop Production	EF	Water mgt. in zaid pulses	01	OFF	15	--	15	5	--	5
Feb. 22	Horticulture	EF	Management of Mango Orchard.	01	OFF	15	--	15	--	--	--
Feb. 22	Plant Breeding	EF	Promising varieties of Sugarcane for more production	01	OFF	15	--	15	--	--	--
Feb 22	Plant Protection	EF	Seed Treatment Technology in Sugarcane	01	OFF	15	--	15	--	--	--
7 Feb.22	Soil Science	EF	Soil health card is a tool for nutrient management in sugarcane cultivation	01	Off	10	--	10	--	--	--
Jan 22	Animal Science	EF	FMD: Its causes, symptoms & prevention	01	Off	08	-	08	02	-	02
March 22	Home Science	Anganwadi workers	Importance of Kitchen Garden for Nutritional security	01	OFF	--	08	08	--	02	02
<b>II<sup>nd</sup> Quarter</b>											
June 22	Crop Production	EF	Water mgt. Paddy	01	OFF	15	--	15	--	--	--
April 22	Plant breeding	EF	Seed prod. technology of Urd crop	01	OFF	15	--	15	--	--	--
June 22		EF	Seed prod. of Paddy	01	OFF	15	--	15	--	--	--
May 22	Plant Protection	EF	Pest mgt. in Natural Farming	01	OFF	15	--	15	--	--	--
April 22	Home Science	Anganwadi workers	Importance of balanced diet for lactating mothers	01	OFF	--	08	08	--	02	02
14 May,22	Soil Science	EF	Precision nutrient technology for consumptive use of fertilizer	01	OFF	8	-	8	2	--	10
June 22	Animal Science	EF	HS: Causes, symptoms & prevention	01	OFF	08	-	08	02	-	02
<b>III<sup>rd</sup> Quarter</b>											
Sept. 22	Crop Production	EF	Intercropping in autumn planted Sugarcane	01	OFF	15	--	15	--	--	--
Aug. 22	Horticulture	EF	Gladiolus intercropping with sugarcane for higher income	01	OFF	15	--	15	--	--	--

Sept. 22	Plant Breeding	EF	Seed prod. technology of Mustard	01	OFF	15	--	15	--	--	--
Sept. 22	Plant Protection	EF	Integrated Pest management (IPM)	02	OFF	13	--	13	2	--	2
Aug.22	Home Science	Ang anw adi work ers	Importance of balance nutrition for Pregnant mother	01	OFF	--	08	08	--	02	02
6 July.22	Soil Science	EF	Improving plant nutrient management for better farmers livelihood	01	OFF	09	09	--	01	01	10

**IV<sup>th</sup> Quarter**

Oct.22	Crop Production	EF	Nutrient & Weed management in timely sown wheat	01	OFF	15	--	15	--	--	--
Nov. 22	Horticulture	EF	Rejuvenation of old mango Orchard	01	OFF	15	--	15	--	--	--
Dec. 22	Horticulture	EF	Pruning technique in Medow gardening of Guava	01	OFF	15	--	15	--	--	--
Oct. 22	Plant breeding	EF	Seed prod.of wheat	01	OFF	15	--	15	--	--	--
Dec. 22	Plant Protection	EF	Identification of diseases and insect pests in Rabi crops	01	OFF	15	--	15	--	--	--
Oct. 22	Home Science	Ang anw adi work ers	Making of low cost nutritional diet for Pre school children	01	OFF	--	08	08	--	02	02
8 Nov,22	Soil Science	EF	Selection of fertilizer combination from soil health card for different kharif crops	01	OFF	08	08	--	02	02	10
Oct. 22	Animal Science		Makhan grass crop mgt. for higher milk	01	Off	08	-	08	02	-	02

## ACTION PLAN 2022

### UNDER National Food Security Mission (Oilseeds & Pulses)

S. No.	Season	Crop	Variety	Area (ha)	No of Demo
1.	Summer 2022	Urd	KUG 479/ PU 31	10.00	25
2.	Summer 2022	Mung	IPU 2-14/ IPU 2-3	10.00	25
3.	Kharif 2022	Urd	PU 31/Mash 479	10.00	25
4.	Rabi 2022-22	Mustard	RH 406/RH 749	20.00	50
5.	Rabi 2022-22	Lentil	PL 08	10.00	25
6.	Rabi 2022-22	Gram	RVG 202	10.00	25

## ACTION PLAN

### “ ATTRACTING & RETAINING YOUTHS IN AGRICULTURE”

#### A. CAPACITY DEVELOPMENT OF RURAL YOUTHS FOR ENTREPRENEURSHIP DEVELOPMENT

S.No.	Area of Trainings & Exposure Visit	No. of Trainees	Budget Required
1.	Bee Keeping	15	89820.00
<b>Total Rs.</b>			<b>89820.00</b>

#### B . ENTREPRISE DEVELOPMENT:

S.No.	Entreprizes	No. of Unit	No. of Rural Youths	Per Unit Cost(Rs.)	Total Cost (Rs.)
1.	Bee Keeping	15	15	80520.00	1207800.00
<b>Total Rs.</b>					<b>1207800.00</b>

**Total Budget A+B= 89820+1207800= Rs.12097620.00**

## ACTION PLAN FOR NARI PROJECT(2022)

### I. Training Programmes:

S N	Title	No of Participants	Duration (Days)
<b>a. Training for Farm Women</b>			
1	Importance of Balance Nutrition	20	01
2	Kitchen Garden	20	01
3	Safe grain storage	20	01
4	Diet management in farm women	20	01
5	Post harvest management in Rabi season vegetables	20	01
6	Saving nutrients while cooking	20	01
7	Health & Hygeine	20	01
<b>b. Rural Youth</b>			
1.	Value addition in Amla products	10	01
2	Value Addition of surplus milk at domestic level	10	01
3	Value Addition of Mango	10	01
4.	Fruit and Vegetable preservation	10	01

### II. Front Line Demonstration :

Crop/ Season	Thematic Area	Technology for demonstration	Critical Input Required	Season & Year.	Area (ha)	No of Farmers/ Demos.	Parameters. Identified
Tomato	Value addition	Making of Tomato puree/sauce to avoid post harvest losses.	Tomato, vinegar	Rabi 18-20	10 Unit	10	Shelf life, Economics(Comparison of value against Market products)
Nutritive kitchen Garden	Value addition	Introduction of Nutritive kitchen Garden	Vegetable seeds & fruit saplings	Rabi 18-20	1.0	10	Vegetable & fruits production from kitchen garden
Mango	Value addition	Amchoor making from mango	Raw mango of Ramkela variety	Kharif 20	10	10	Shelf life, Economics(Comparison of value against Market products)
Poultry Farming	Poultry Management	Nutritional Security through backyard poultry	Chicks	Khrif 2020	05	05	Nutritional status of farm families



### III. OFT 1. : Role of SHG in Income Generation & Balance Nutrition

S.no.	Particular	Details
1	Title of On Farm Trial	Assessment of role of SHG for Income generation through preparation of different pulses and vegetable BADIS
2	Problem Diagnosed	Low income of farm women due to lack of participation in decision making in income generating activities
3	Thematic Area	Value Addition and Small scale industry
4	Details of Technology Selected for Assessment	T1: Farmer Practice(without non conventional income generating activities) T2: Preparation of Different pulses and vegetable BADIS by SHG members
5	Source of technology	APC,CIAE, Bhopal
6	Characteristics of Technology/Variety/Product/ Enterprise	1.High in Proteins and Vitamins 2.Long Storage Life 3.High Palatability
7	Farming/ Enterprise Situation	Mixed farming
8.	No. of Trials	A group of 10 x2
9.	Performance Indicator/ Parameter	Technical observations Regular saving Saving used for income generation activities Internal loaning Keeping quality of value added product Economic Indicator Income through product CB ratio FW Reaction and Feedback

IV. Awareness Campaign

V. Advisory Services -

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**ACTION PLAN**  
*January – December, 2023*



**KRISHI VIGYAN KENDRA  
MUZAFFARNAGAR-II**

# ACTION PLAN

(JANUARY to DECEMBER 2023)

## KRISHI VIGYAN KENDRA, MUZAFFARNAGAR-II

### 1. General Information about the KVK

#### 1.1. Name and address of the KVK

Address	Telephone		E-Mail	Website
	Office	FAX		
KRISHI VIGYAN KENDRA, CHITODA, DISTT.- MUZAFFARNAGAR (U.P.) PIN- 251314	09412311560		kvkmuzaffarnagar02@gmail.com	muzaffarnagar2.kvk4.in

#### 1.2.a. Name and address of the host organization

Address	Telephone		E-Mail	Website
	Office	FAX		
DIRECTORATE OF EXTENSION Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut.-250110	0122- 2888511	0122- 2888505 2888540	deesvpuat2014@gmail.com	svpuatmeerut.ac.in

1.2.b. Status of KVK website : Developed : muzaffarnagar2.kvk4.in

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : NA


1.2.d Status of ICT lab at your KVK : NA

#### 1.3. Name of the Head :

Name	Telephone/ Contact		
	Office	Mobile	E-Mail
Dr. Prabha Shankar Tiwari	-	09412311560	kvkmuzaffarnagar02@gmail.com

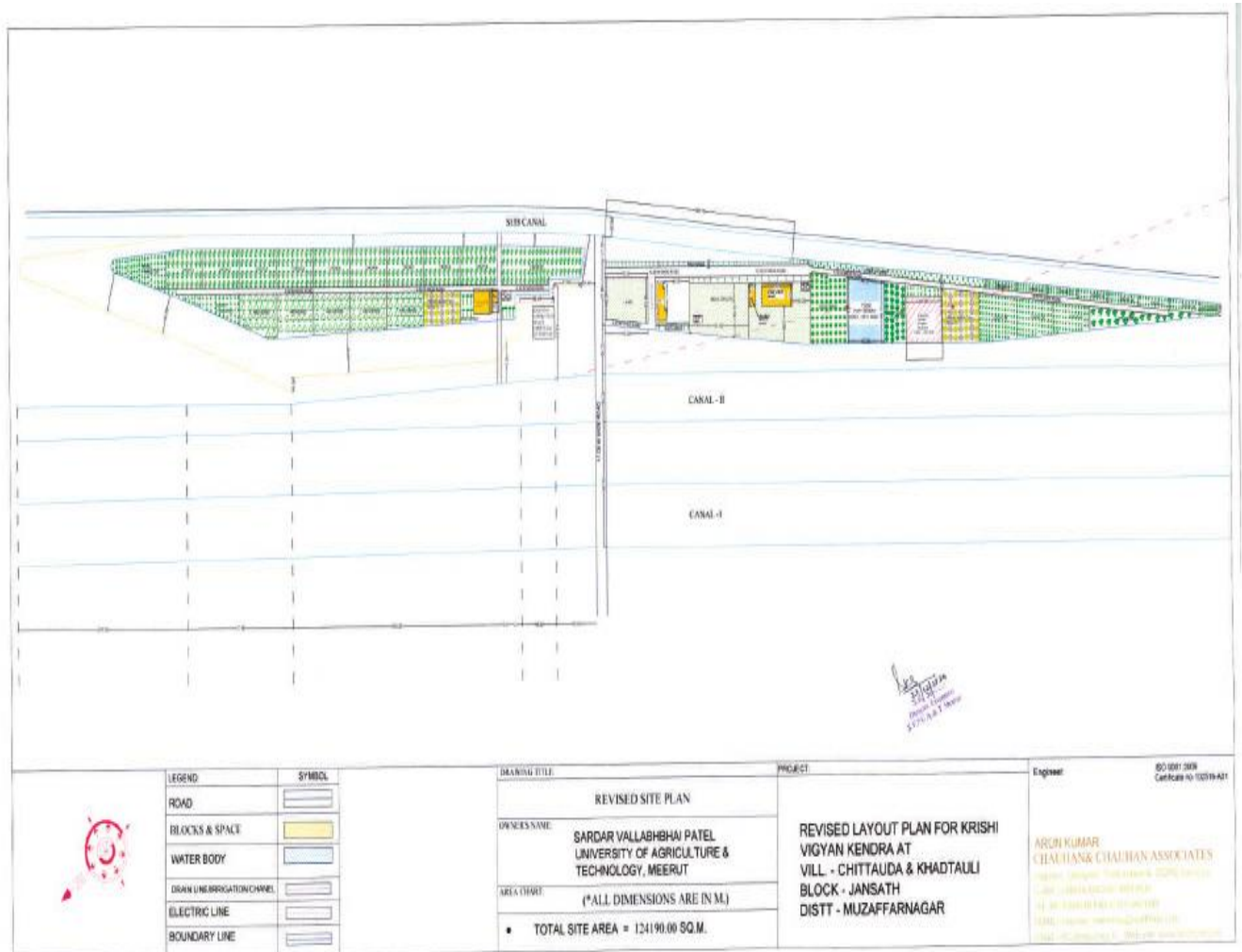
1.4 . Year of Sanction : 2018

### 1.5. Staff Position (as on 01 Aug. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	SMS	Dr. Prabha Shankar Tiwari	Professor	Agril. Engineering	37400-67000	10000	1,77,400	01/07/98	Permanent	GEN	9870949564	drpsteng@gmail.com	
2	SMS	Dr. Surendra Kumar	SMS/ Asstt. Prof.	Agril. Extension	15600-39100 8000	8000	1,01,100	18/07/08	Permanent	OBC	9319304168	sktanwar_kvkbaghat@rediffmail.com	
3	SMS	Dr. Yesh Pal Singh	SMS/ Asstt. Prof.	Horticulture	15600-39100 8000	8000	98,200	19/01/09	Permanent	OBC	9457111952	ypsingh76@gmail.com	
4	SMS	Dr. Mohamad Hasnain	SMS	Agronomy	15600-39100	5400	56100	01/07/22	Permanent	OBC	8447286856	mdhasanain49542@gmail.com	
5	SMS	Dr. Saumya Pandey	SMS	Fisheries	15600-39100 8000	5400	56100	06/07/22	Permanent	GEN	9453912200	saumyasmsfisheries@gmail.com	
6	SMS	Dr. Pooja	SMS	Home Science	15600-39100	5400	56100	28/07/22	Permanent	OBC	9023739120	poojakaunda10007@gmail.com	
7	Programme Asstt.	Dr. Jitendra Arya	Programme Asstt.	Horticulture	9300-34800	4800	86,100	01/07/98	Permanent	OBC	9412311554	jkarya67@gmail.com	
8	Programme Asstt	Mr. Sanjeev Kumar	Programme Asstt.,/ Farm Manager	Agronomy	9300-34800	4800	68,000	23/01/04	Permanent	OBC	8392955124	sanjeevk1970@gmail.com	
9	Computer Programmer	Mr. U. S. Rathi	Programme Asstt., Computer	Computer Science	9300-34800	4600	56,900	30/07/07	Permanent	OBC	9012347688	uttam.svp@gmail.com	
10	Driver	Mr. Harish Kant Sharma	Driver	--	5200-20200	2800	45,400	01/07/98	Permanent	GEN	9027224876	-	
11	Supporting Staff	Mr. Udaivir	Attendant	--	4440-7440	2800	38,600	01/07/98	Permanent	OBC	8445125399	udaivirs055@gmail.com	

**1.6. Total land with KVK (in ha) : 12.419 ha.**

S.No	Item	Area (ha)
1.	Under Building	0.055
2.	Under Demonstration Units	-



## 1.7. Infrastructure Development:

### A). Building

S. No.	Name of the Building	Source of fund	Stage Complete		
			Completion date	Plinth area in Sqm.	Sanctioned budget (Rs)
1.	Administrative Building	ICAR	Jan., 2022	550 sqm	15.84 lac
2.	Farmers Hostel	-	-	-	-
3.	Staff Quarters (6)	-	-	-	-
4.	Demonstration Unit (2)	-	-	-	-

### B). Vehicles

Type of Vehicle	Year of Purchase	Cost (Rs.)	Total KMS Run	Present Status	Required replacement
Bolero Jeep UP12 AG 0581	2022	800000.00	10,500 KM	Working	No
Motorcycle	-	-	-	-	-
Bicycle	-	-	-	-	-

### C). Equipments & AV Aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Required replacement
<b>Equipments</b>				
Computer	-	-	Working	
<b>Farm Implements :</b>				

### 1.8. A. Details of SAC meeting to be Conducted in the year

S. No.	Date
1.	Dec. 2021

## 2. Details of District (2021-2022 )

### 2.1 Major Farming System/ enterprises (based on analysis made by KVK)

- S. Cane based + A.H+ Horticulture
- S. Cane based + A.H+ Vegetable + Floriculture
- S. Cane based + A.H + Horticulture

## 2.2 Description of Agro climatic Zone & major agro ecological situations

Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
1.	AES-1	More than 85% Area, Sandy Loam Soil	S.Cane, Wheat, Rice, Jowar, Mango, Potato	S. Cane based + A.H+ Horticulture + Mustard	Purkaji, Morna & Jansath
2.	AES-2	More than 95%, Sandy Loam	S.Cane, Wheat, Jowar, Brinjal, Cabbage, Gladiolus, Tuberose,	S. Cane based + A.H+ Vegetable+ Floriculture + Mustard	Khatauli

## 2.3 Soil Type/s

S.No.	Soil Type	Characteristics		Area (ha)
		Soil particle Diameter (mm)	Water holding capacity	
1.	Sandy	2 - 0.2 mm,	Poor	17633
2.	Sandy loam	0.2 - 0.02 mm,	Medium	128334
3.	Loam	0.02 - 0.002 mm	Average	78186
4.	Clay loam	>than 0.002 mm	Good	5126
		<b>Total</b>		<b>220269</b>

## 2.4. Area, Production & Productivity of major crops cultivated in the district in 2020

S.N	Crop	Area (ha)	Productivity (Qt./ha)
1.	Sugarcane	132004.00	812.00
2.	Wheat	80254	41.17
3.	Paddy	11580	23.36
4.	Blackgram	717	5.40
5.	Greengram	100	4.14
6.	Lentil	285	6.91
7.	Gram	270	1074
8.	Pea	360	13.89
9.	Pigeon Pea	37	8.04
10	Mustard	4018	12.35
11	Potato	3260	230.01
12	Cotton	274	1.30
13	Maize	250	15.75

## 2.5 Weather Data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
January 2021	59.8	17.6	6.5	91
February 2021	40.0	22.4	7.8	87
March 2021	116.0	26.4	12.4	80
April 2021	35.8	32.6	17.7	64
May 2021	53.4	35.6	22.4	64
June 2021	87.6	35.3	24.5	78
July 2021	324.8	33.0	23.9	79
August 2021	240.0	32.5	24.7	90
September 2021	40.0	34.1	23.8	87
October 2021	0.6	30.7	18.2	83
November 2021	33.2	26.7	13.2	83
December 2021	35.6	17.4	6.7	90

## 2.6 Production & Productivity of Livestock, Poultry, Fisheries in the district

Category	Population	Production	Productivity
<b>Cows</b>			
Crossbred	35460	413514 liter/day	1800-3178 liter/lactation
Indigenous	133459		1200-2270 liter/lactation
<b>Buffalo</b>	204306	1790140 liter/day	1360-2270 liter/lactation
<b>Sheep</b>		--	--
Crossbred	223	Wool - 11873 kg/ year	--
Indigenous	8478		
<b>Goats</b>	20429	5294 mt	180-544 lit/lactation
<b>Pigs</b>			
Crossbred	10543	12012000 kg meat	--
Indigenous	24856		
<b>Rabbits</b>	281	--	--
<b>Poultry</b>			
Hens			
Desi	54502	163589 kg meat	1.0 kg
Improved	109087		
Ducks	1642	--	--
Turkey	20	--	--
Camel	41	--	--

### Fisheries

Category	Area (ha)	Production	Productivity
Fish	1239	40887 qt	30-35



## 2.7 Details of Operational area/ Villages (2022)

S. No.	Taluk	Name of Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust areas
1.	Khatauli	Khatauli	Nauna, Mogpur, Pal	Sugarcane	High infestation of insect & disease	Insect & disease mgt. through IPM
				Gladiolus	Low yield due to use of local variety and rotten corm	Introduction of HYV & Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
2.	Jansath	Jansath	Nagla Kabir, Sikhada, Chittora	Sugarcane	Poor yield due to no use of organic matter	Promoting of organic manure
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Merigold	Use of local seed, High infestation of disease	Introduction of HYV Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
				Barseem	Low yield due to local seed	Introduction of HYV
3.	Jansath	Morena	--	Sugarcane	High infestation of insect & isease	Insect & disease mgt. through IPM
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
4.	Sadar	Purkaji	--	Sugarcane	High infestation of insect & isease	Insect & disease mgt. through IPM
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM

## 2.8 Priority Thrust Areas:

Crop/Enterprise	Thrust area
Sugarcane	Mechanization of Sugarcane Crop ,Intercropping with Sugarcane, IPNM, Weed management, IPM, IDM, Seed production,
Wheat	Mechanization of Wheat Crop, Integrated Nutrient Management, Weed management, IPM, IDM, Seed production, Foliar application of Micronutrients
Rice	Mechanization of Rice Crop, IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Vegetables	IPNM & IPM
Oilseeds & Pulses crop	Mechanization of Oilseed & Pulses, Crop, Sulphur, IDM & IPM
Animals	Dairy Establishmnet, Endo & Ecto parasite control, Improving fertility

8. In-situ management of crop residue.
9. Popularization of drip irrigation in horticulture & Sugarcane crop.
10. Use of plastic culture in agriculture for floriculture & off season vegetable production.
11. Maintenance of soil productivity through soil test based nutrient management.
12. Promoting intercropping of Pulses, floriculture & vegetables with Sugarcane
13. Popularizing Bio- pesticides (Trichoderma, Beauveria Bassiana, etc) for management of early Shoot borer in Sugarcane crop.
14. Promoting high value floriculture as diversification enterprise for extra income generation.
15. Promoting off season vegetable nursery

### 3. TECHNICAL PROGRAMME

#### 3. A. Details of targeted mandatory activities by KVK

OFT		FLD	
1		2	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
12	24	81.46	330

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
145	2650	1421	11703

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
-	25000	-	-	-

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
1000	1000	-	-

### 3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Trg. If any	Title of Trg. Of Ext. Personnel if any	Extension activities	Supply of seeds/ planting materials etc.
1.	Improving production & productivity of s. cane	Sugarcane	Low production & productivity of Sugarcane due to -- Late sowing -- Imbalance use of fertilizer -- Disease & insect infestation	- White grub mgt.	Mgt. of early shoot borer	Balance use of fertilizer  White grub mat.	Fertilizer mgt in S. cane	Field day	Pesticide & Bio Pesticide
2.	Potential productivity of Sugarcane	Sugarcane	Exponential Reduction productivity Dominant use of Nitrogen and Phosphorus only	Site Specific Nutrient Management	SSNM	Nutrient supply on Target yield basis	Trench Planting and use of SSNM	Field day Trainings	Nutrients in the form of Fertilizers
3.	To increase the productivity of Wheat.	Wheat	--Low production of Wheat due to use of local variety -- Weed infestation -- Late sowing of wheat -- Imbalance use of fertilizer - Deficiency of nutrients	Varietal evaluation  Nutrient Management	Weed mgt. Mgt. of karnal bunt & loose smut Nutrient Management	- Seed production of Wheat - Water mgt. - Weed mgt.	Introduction of HVY  --	Rabi Gosthi, Field day	Seed (WH-1105, DBW 71)  Secondary & Micronutrient
4.	Improving production & productivity of Rice	Rice	Low production & productivity of rice due to -- Poor varieties -- Imbalance use of fertilizer -- Disease & insect infestation	Varietal evaluation	Mgt. of Stem borer & rice neck blast -Weed mgt INM in Rice.	Crop prod. Mgt. IPM in rice  INM Soil test based	IPM in rice  INM in Rice	Field day	Seed(PB 1509, Vallabh 23) Bispyribac Sodium 10% @80 gm/ acre S & Zn apply on standing crop
5.	Improving production & productivity of vegetables	Cauliflower French bean Cabbage Chili Brinjal	Low production due to use of local variety --disease infestation -- Imbalance use of fertilizer	--	Introduction of HYV	Producing nursery raising techniques of vegetables & flowers	Scientific cultivation & IPM in vegetable crop	--do--	Improved seed
6.	Improving production & productivity of Fruits	Guava	Low production & productivity of Guava due to lack of technical knowledge	Mgt. of Wilt	Mgt of fruit Fly	--Crop regulation in Guava	Crop regulation & Orchard mgt	Field day & Gosthi	Bio- Pesticide & Fungicide

						-- Disease & Pest mgt -- Fertilizer mgt.	of Guava		
7.	Diversification through high value crops	Gladiolus , Tubrose, Merigold	Low production due to - Use of local variety - Disease infestation - Lack of technical knowledge	Varietal evaluation	Disease mgt.	-- Scientific cultivation of Gladiolus , -- Scientific cultivation of Tubrose -- Disease mgt of Gladiolus & Tubrose	Plant Propagation techniques	Field day ,Gosthi & Literature	Planting Material
8.	Improving production & productivity of Oilseeds & Pulses	Mustard Urd	Low production & Productivity due to  -- Incidence of insect & disease -- Use of local variety -- Imbalance use of fertilizer -- lack of technical knowledge	--	Demo on HYV -	-- IPM in Mustard crop -- Aphid control in Mustard crop. - Role of sulphar in Oilseed crop. --Use & importance of Raziobium culture in Pulses crop --Disease & insect mgt.	Scientific cultivation of oilseed & Pulses	Field days, Gosthi & Literature	Mustard Seed- Pusa Mustard 25/28 Urd- IPU 02-43 /PU – 28/31/40
9.	Improving production of green fodder	Makkhan Grass	Introduction of new Fodder crop	--	Introduction (of HYV) of Makkhan Grass	--	--	----	Seed
10.	Drudgery reduction among farm women	Farm women	Poor skill due to lack of technical knowledge	Drudgery reduction	---	Drudgery reduction of farm women by improved agriculture implements	--	Do----	Improved Stool
11.	Malnutrition among rural family	Kitchen garden	No production of vegetables at domestic level	--	-- Nutritive kitchen garden	-- Role of sprouted pulse -- Making of mango jam. -- Role of green leafy vegetables	-- Nutrient mgt. of pre-schoolers	--do--	Seed & Saplings of fruit & vegetables  Fruits & chemical preservatives

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Pulses	Commercial Crops	Vegetables	Fish	TOTAL
Varietal Evaluation	1	-	-	2	-	3
Integrated Plant Nutrient Management	-	-	1	-	-	1
Intercropping	-	-	1	-	-	1
Water Management	-	-	1	-	-	1
Integrated Nutrient Management	1	-	-	-	-	1
Farm machineries	-	-	1	-	-	1
Value addition	-	-	-	1	-	1
Nutrient inadequacy		1	-	-	-	1
Fish feeding practice	-	-	-	-	1	1
Reduction in fish mortality	-	-	-	-	1	1
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>12</b>

A.2. Abstract on the number of technologies to be refined in respect of crops : N.A.

A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises : N.A.

A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises : N.A.

## B. Details of each On Farm Trial

### 1. OFT on crop nutritional in sugarcane:

Crop/Enterprises	<b>Sugarcane</b>
Title of on-farm trial	<b>Integrated plant nutrient management</b>
Problem diagnosed	Low yield and imbalance nutrient application
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	<b>T<sub>1</sub></b> - Farmers practice
Details of technologies selected for assessment/refinement	<b>T<sub>2</sub></b> - IPNM
Source of technology	IISR, Lucknow
No. of farmers	2 (Area – 0.4 * 2 = 0.8 ha)
Replications/No. of locations	2
Critical input	Micronutrient mixture (20 kg FeSo <sub>4</sub> +10kg ZnSo <sub>4</sub> +10kg MnSo <sub>4</sub> +5 kg CuSo <sub>4</sub> +5 kg Borax/ha)
Performance indicators: (i)Technical, (ii)Economic, (iii) Social	Productivity, Profitability and Soil health
Cost of each location	2000/-
Total Cost of OFT	4000/-
Name of Scientist	Dr. Mohammad Hasanain (Agronomy)

### 2. OFT on Nitrogen management of Rice:

Crop/Enterprises	<b>Rice</b>
Title of on-farm trial	<b>Nitrogen management</b>
Problem diagnosed	Low yield due to poor nitrogen use efficiency
Thematic area	Crop Nutrients
Farming situation	Irrigated
Farmer's practices	<b>T<sub>1</sub></b> - Farmer practices
Details of technologies selected for assessment/refinement	<b>T<sub>2</sub></b> - Nano Urea
Source of technology	IFFCO
No. of farmers/ No. of locations	2 (Area – 0.4 * 2 = 0.8 ha)
Replications	02
Critical input	Nano Urea @500 ml/acre
Performance indicators i). Technical, ii). Economic iii) Social	Yield, NUE and B:C ratio
Cost of each location	800/-
Total Cost of OFT	1600/-
Name of Scientist	Dr. Mohammad Hasanain (Agronomy)

### 3. OFT on Varietal evaluation of Okra :

Crop/Enterprises	<b>Okra</b>
Title of on-farm trial	<b>Varietal evaluation of okra</b>
Problem diagnosed	Low yield due to use of local variety
Thematic area	Production & management technology
Farming situation	Irrigated
Farmer's practices	<b>T<sub>1</sub></b> - Farmer practices (Use of local variety )
Details of technologies selected for assessment/refinement	<b>T<sub>2</sub></b> - Kashi Lalima
Source of technology	ICAR-IIVR, Varanasi
No. of farmers/ No. of locations	2 (Area – 0.4 * 2 = 0.8 ha)
Replications	02
Critical input	Seed of Kashi Lalima
Performance indicators i). Technical ii). Economic iii) Social	Yield, Disease incidence, Net profit (Rs/ha), Acceptability of technology
Cost of each location	2500/-
Total Cost of OFT	5000/-
Name of Scientist	Dr. Yesh Pal Singh (Horticulture)

### 4. OFT on Varietal evaluation of Cauliflower :

Crop/Enterprises	<b>Onion</b>
Title of on-farm trial	<b>Varietal Evaluation of onion</b>
Problem diagnosed	Low yield and short durability
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	<b>T<sub>1</sub></b> - Farmers practice (ALR)
Details of technologies selected for assessment	<b>T<sub>2</sub></b> - NHRDF Red-4
Source of technology	NHRDF New Delhi
No. of farmers	2 (Area – 0.4 * 2 = 0.8 ha)
Replications/No. of locations	2
Critical input	Onion seed (NHRDF Red-4)
Performance indicators i) Technical ii) Economic iii) Social	Total yield /ha , Income B.C. ratio
Cost of each location	2000/-
Total Cost of OFT	4000/-
Name of Scientist	Dr. Yesh Pal Singh (Horticulture)



### 5. OFT on Intercropping of garlic with sugarcane

Crop/Enterprises	<b>Sugarcane</b>
Title of on-farm trial	<b>Intercropping of Garlic with Sugarcane</b>
Problem diagnosed	Low net return as a single crop
Production system and thematic area	Sugarcane-wheat, Intercropping
Farming situation	Irrigated
Farmer's practices	<b>T<sub>1</sub></b> Sugarcane cultivation as a single crop
Details of technologies selected for assessment	<b>T<sub>2</sub></b> Intercropping of Garlic with Sugarcane (two row of garlic between two row of sugarcane)
Source of technology	S.V.P.U.A.& T., Meerut.
No. of farmers	2 (Area – 0.4 * 2 = 0.8 ha)
Replications/No. of locations	2
Critical input	Seed of garlic
Performance indicators i). Technical ii). Economic iii) Social	Yield, Infestation of borers (per m <sup>2</sup> ), Net profit (Rs/ha), Acceptability of technology
Total Cost of OFT	4000/-
Name of Scientist	Dr. Surender Kumar, SMS/Asstt. Prof. (Agril. Extension)

### 6. OFT on Varietal evaluation of timely on wheat:

Crop/Enterprises	<b>Wheat</b>
Title of on-farm trial	<b>Varietal evaluation of timely sown Wheat</b>
Problem diagnosed	Low yield & heavy infestation of yellow rust due to use of old/ traditional variety
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	<b>T<sub>1</sub></b> - PBW 502
Details of technologies selected for assessment	<b>T<sub>2</sub></b> – DBW 187
Source of technology	IIWBR Karnal/ IARI
No. of farmers	2 (Area – 0.4 * 2 = 0.8 ha)
Replications/No. of locations	2
Critical input	Wheat seed DBW 187
Performance indicators i). Technical ii). Economic iii).Social	No of Plants per sq/meter Total yield /ha ,Deficiency occurrence Income B.C. ratio
Cost of each location	2000/-
Total Cost of OFT	4000/-
Name of Scientist	Dr. Surender Kumar, SMS/Asstt. Prof. (Agril. Extension)

## 7. OFT

Particulars	Details
Title of OFT	Drip Irrigation in Sugarcane crop
Problem diagnosed	Excess use of water in Sugarcane
Thematic Area	RCT
Details of technologies selected for assessment	<b>T<sub>1</sub></b> - Farmer practice – Irrigation in flood system <b>T<sub>2</sub></b> - Drip Irrigation
Source of Technology	Sugarcane research institute, Lucknow
Characteristics of Technology	4. High yielding 5. Time and labour saving 6. Saving of water
No of Trail	2 (Area – 0.4 * 2 = 0.8 ha)
Critical Input	Facilitation to farmers
Performance Indicator/Parameter	Percentage of water saving Germination percentage Crop Growth Yield B:C Ratio
Name of Scientist	Dr. P.S. Tiwari, Professor (Agriculture Engineering)

## 8. OFT

Particulars	Details
Title of OFT	Evaluation of crop residue mngt. in wheat
Problem diagnosed	Burning of crop residues
Thematic Area	RCT
Details of technologies selected for assessment	<b>T<sub>1</sub></b> - Farmer practice – Sowing after burning of crop residue. <b>T<sub>2</sub></b> - Sowing of wheat after incorporation of crop residue by mulcher
Source of Technology	PAU, Ludhiyana
Characteristics of Technology	3. High yield 4. Time , labour and water saving
No of Trail	2 (Area – 0.4 * 2 = 0.8 ha)
Critical Input	Hiring of Tractor
Performance Indicator/Parameter	1.Germination percentage 2.Crop Growth 3.Yield 4.B:C Ratio
Expenditure	Rs. 4000/-
Name of Scientist	Dr. P.S. Tiwari, Professor (Agriculture

**9. OFT On Fish feeding practices (Zaid -2023 )**

Crop/Enterprise	<b>Fish (Carps)</b>
Title	<b>Use of rice bran, groundnut oil cake, fish meal and vitamin mineral mixture as fish feed</b>
Problem diagnosed	Improper feeding practices is leading towards low growth rate of the fishes
Farming situation	Composite fish culture
Thematic area	Fish feeding practices
Farmer's Practice	Use of maize powder as feed
Farmer's practice	<b>T<sub>1</sub></b> Use of maize powder as feed
Details of technologies selected for assessment/refinement	<b>T<sub>2</sub></b> Use of rice bran, groundnut oil cake, fish meal and vitamin mineral mixture in the ratio of 40:40:20:1
Source of technology	CIFE, Mumbai
No. of farmers	2 (Area – 0.4 * 2 = 0.8 ha)
Critical Input	rice bran, groundnut oil cake, fish meal and vitamin mineral mixture
Observations to be recorded	<ul style="list-style-type: none"> <li>• Increase in growth rate</li> </ul>
Total cost of OFT	Rs 7000/-
Name of Scientist	Dr. Saumya Pandey, SMS (Fisheries)

**10. OFT On reduction in fish mortality ( Kharif -2023 )**

Crop/Enterprise	<b>Fish (Carps)</b>
Title	<b>Reduction of mass mortality in early stages of carps</b>
Problem diagnosed	Heavy mortality in fry fingerling stages due to improper nutrients availability
Farming situation	Composite fish culture
Thematic area	reduction in fish mortality
Farmer's Practice	Purchase of fish seed from the market
Farmer's practice	<b>T<sub>1</sub></b> (Use of maize powder as feed
Details of technologies selected for assessment/refinement	<b>T<sub>2</sub></b> Use of agrimin powder and promarine powder @ 2-5gm/kg feed along with the feed
Source of technology	CIFA, Odissa
No. of farmers	2 (Area – 0.4 * 2 = 0.8 ha)
Critical Input	agrimin powder and promarine powder
Observations to be recorded	<ul style="list-style-type: none"> <li>• Reduction in mortality</li> </ul>
Total cost of OFT	Rs 6000/-

Name of Scientist	Dr. Saumya Pandey, SMS (Fisheries)
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### 11. OFT on value addition

Crop /Enterprise	<b>Vegetables</b>
Title of On Farm Trial	<b>Domestic scale preservation of vegetables.</b>
Problem Diagnose	<ul style="list-style-type: none"> <li>• Lack of knowledge in preservation</li> <li>• Spoilage of fruits and vegetables due to lack of preservation techniques knowledge.</li> </ul>
Thematic area	Value Addition
Details of Technologies selected for assessment/refinement	T <sub>1</sub> (Farmer's Practice) : Sun drying of seasonal vegetables like cauliflower with put any treatment T <sub>2</sub> : Mixed pickle after blanching with preservatives
Source of Technology	College of Community Science, RPCAU, Pusa.
Replication	02
Performance indicator/ Parameter	To assess the quality after preserving the vegetables on domestic scale. Indicators: <ol style="list-style-type: none"> <li>1. Self like</li> <li>2. Colour</li> <li>3. Flavour</li> </ol>
Total Cost	Rs. 3000
Name of Scientist	Dr. Pooja, SMS (Home Science)

### 12. OFT on value addition

Crop /Enterprise	<b>SHG</b>
Title of On Farm Trial	<b>Assessment of role of SHG for income generation through preparation from different pulses and vegetable badi</b>
Problem Diagnose	Nutrient inadequacy
Thematic area	Nutrient inadequacy
Details of Technologies selected for assessment/refinement	T 1 – Farmer practice- Preparation from few pulses T 2 – Preparation from different type of pulses and vegetables.
Source of Technology	GBPUA&T, Pantnagar
Replication	2
Performance indicator/ Parameter	Nutritive value Cost of preparation Profitability Sale opportunity Farmer reaction and feedback Self life
Total Cost	Rs. 3000
Name of Scientist	Dr. Pooja, SMS (Home Science)

### 3.1 DEMONSTRATION

#### Cluster front line demonstration on Pulses (under NFSM):

S N	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season / year	Area (ha)	No. of Demo.	Parameter indicators
<b>Oilseed and pulses</b>									
1	Blackgram	Shekhar-2	Varietal evaluation	Improved variety with treated seed	Seed (18.0 kg/ha), Trichoderma (5 kg/ha), Pre-mergence weedicides (pendamethlyne @3.3 kg/ha)	Kharif 2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>
2	Chick Pea	RVG-202	Varietal evaluation	Introduction of Improved variety RVG-202	Seed (70 Kg/ha.) Pre-mergence weedicides (pendamethlyne @3.3 kg/ha)	Rabi 2023 -24	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>
3	Blackgram	Shekhar-2	Varietal evaluation	Improved variety with treated seed	Seed (18.0 kg/ha), Trichoderma (5 kg/ha), Pre-mergence weedicides (pendamethlyne @3.3 kg/ha)	Summer 2023	10.0	25	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>

**Cluster front line demonstration on Oilseeds (under NFSM):**

S N	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season / year	Area (ha)	No. of Demo.	Parameter indicators
<b>Oilseed and pulses</b>									
1	Mustard	Pusa RH-749	Varietal evaluation	Improved variety	Seed 5.0 kg/ha + Sulphur 40 Kg/ha	Rabi 2023 -24	20.0	50	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Increase in yield (%)</li> </ul>

**Demonstration: Other than Oilseed and pulses**

S N	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season / year	Area (ha)	No. of Demo.	Parameter indicators
1	Rice	PB-1728	Weed management	Weed control through Bispyribac Sodium 10% SC (Nominee gold) @80 gm/ acre	Weed control through Bispyribac Sodium 10% SC (Nominee gold) @80 gm/ acre	Kharif 2023	4.0	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Weed control efficiency</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>
2	Autumn Sugarcane	CoS-13235	Intercropping	Intercropping in Autumn sugarcane	Seed of Chickpea and Mustard intercropping	Rabi 2023-24	4.0	10	<ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Gross Return</li> <li>• Net Return</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>
3	Wheat	HD-3026	Weed management	Chemical weed control for broad & narrow leaves weeds	Weedicide Atlantis (Mesosulfuron + idosulfuron) @ 160 gm/acre	Rabi 2023-24	4.0	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Weed control efficiency</li> <li>• C:B Ratio</li> <li>• Yield increase (%)</li> </ul>

4	Spring Sugarcane	CoS-13235	SSNM	Nutrient management for crop nutrition and soil health	Organic manure + NPK + Micronutrient mixture	Spring 2023-24	4.0	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Nutrient use efficiency</li> <li>• B:C Ratio</li> <li>• Yield increase (%)</li> </ul>
5	Summer Squash	Kashi Shubhangi	Varietal	Use of improved variety Kashi Shubhangi	Seed of Kashi Shubhangi	Zaid 2023	0.2	5	<ul style="list-style-type: none"> <li>• Yield</li> <li>• B:C Ratio</li> </ul>
6	Chilli	Kashi Anmol	Varietal	Use of improved variety Kashi Anmol of Chili	Kashi Anmol	Kharif 2023	0.2	5	<ul style="list-style-type: none"> <li>• Yield</li> <li>• B:C Ratio</li> </ul>
7	Okra	Kashi Shrasti/Lalima	Varietal	Use of improved variety Kashi Shrasti/Lalima	Kashi Shrasti/Lalima	Kharif 2023	0.2	5	<ul style="list-style-type: none"> <li>• Yield</li> <li>• B:C Ratio</li> </ul>
8	Onion	HYV – Bhima Shakti	Varietal	Use of improved variety HYV – Bhima Shakti of onion	Seed of Bhima Shakti	Rabi 2023-24	0.4	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• B:C Ratio</li> </ul>
9	French bean	Kashi Rajhansh	Varietal	Use of improved variety Kashi Rajhansh	Seed of Kashi Rajhansh	Rabi 2023-24	0.4	5	<ul style="list-style-type: none"> <li>• Yield</li> <li>• B:C Ratio</li> </ul>
10	Vegetable Pea	Kashi Nandini/Mukti	Varietal	Use of improved variety Kashi Nandini/Mukti	Seed of Kashi Nandini/Mukti	Rabi 2023-24	0.4	10	<ul style="list-style-type: none"> <li>• Yield</li> <li>• B:C Ratio</li> </ul>
11	Sugarcane	CoS-0238	IPM	Application of Trychocard to control the borers in Sugarcane	Trychocard	Kharif 2023	10.0	20	<ul style="list-style-type: none"> <li>• Yield</li> <li>• Cost of cultivation</li> <li>• Net Return</li> <li>• C:B Ratio</li> </ul>
12	Sugarcane	-	Mechanization	Use of Sugarcane Planter	Sugarcane Planter on hiring basis	Zaid 2023	4.00	10	<ul style="list-style-type: none"> <li>• Yield (Q/ha)</li> </ul>

13	Wheat	-	Resource Conservation	Sowing of Wheat by Zero Seed Drill after rice	Zero Seed Drill	Rabi 2023-24	4.00	10	• Yield (Q/ha)
14	Paddy	Pusa-1121	Resource Conservation Technology	Use of Power sprayer for spraying of insecticides in Paddy crop	Hiring of Power Sprayer	Kharif 2023	2.0	05	• Cost of cultivation • Net Return • C:B Ratio
15	Wheat	HD -2967	Resource Conservation Technology	Sowing of wheat by Happy seeder	Hiring of Tractor	Rabi 2023-24	4.0	10	• Cost of cultivation • Net Return • C:B Ratio
16	Kitchen Garden	Kharif vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable Seeds	Kharif 2023	0.02	10	• Cost of cultivation • Net Return • C:B Ratio
17	Kitchen Garden	Rabi vegetables	Nutritional Security	Production of organic vegetables in Kitchen Garden	Vegetable Seeds	Rabi 2023-24	0.02	10	• Cost of cultivation • Net Return • C:B Ratio
18	Button Mushroom	Mushroom production	Income generation	Mushroom cultivation for income generation	Spawn	Rabi 2023-24	0.02	10	• Cost of cultivation • Net Return • C:B Ratio
19	Rural craft	-	Rural craft	Textile handicrafts for income generation	Yarn and Fabric	-	-	10	• Cost of cultivation • Net Return • C:B Ratio
20	Fish	Carps	Health management	Use of Waltermin powder @ 20kg/ha to increase minerals and nutrients in water and soil.	Waltermin powder, 40kg	-	1.0	10	• Reduction in mortality



21	Fish	Carps	Water quality improvement	Use of Toximar powder @ 5kg/0.4 ha to enhance water quality	Toximar powder, 25kg	-	1.0	10	<ul style="list-style-type: none"> <li>• Reduction in mortality</li> <li>• Growth rate</li> </ul>
22	Fish	Carps	Growth promoter	Use of Promarine powder @ 2-5gm/1kg feed to increase digestibility and weight of fish	Promarine Powder, 5kg	-	1.0	05	<ul style="list-style-type: none"> <li>• Reduction in mortality</li> <li>• Growth rate</li> </ul>
23	Fish	Carps	prophylactic measure	Use of KMnO <sub>4</sub> @ 2mg/lit (1ppm) as prophylactic measure against pathogens	Potassium permagnate (KMNO <sub>4</sub> ), 5 kg	-	1.0	05	<ul style="list-style-type: none"> <li>• Reduction in mortality</li> <li>• Growth rate</li> </ul>

ii) **Livestock Enterprises: Nil**

**B. Extension and Training activities under FLDs during 2023-24**

SN	Activity	No. of activities	Month	Approximate number of participants
1	Field days	06	July, August, Nov, Dec	180
2	Farmers Training	12	June, July, Sept., Oct., Dec., Jan, Feb, March	240
3	Media coverage	20	June., Sep., Oct., Nov., Dec.	Mass
4	Training for extension functionaries	07	May, July., Sep., Nov.,	105

### 3.7 Training (Including the sponsored and FLD training programmes):

#### a. ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Integrated Nutrient Management	03	51	-	51	09	-	09	60
Integrated Weed Management	01	17	-	17	03	-	03	20
Integrated Farming	01	17	-	17	03	-	03	20
Nursery management	01	17	-	17	03	-	03	20
<b>Total</b>	<b>06</b>	<b>102</b>	<b>0</b>	<b>102</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>120</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	01	17	-	17	03	-	03	20
Off-season vegetables	01	17	-	17	03	-	03	20
Nursery raising	01	17	-	17	03	-	03	20
Production and Management technology	02	34	-	34	06	-	06	40
<b>b) Ornamental Plants</b>								
Production and Management technology	01	17	-	17	03	-	03	20
<b>Total</b>	<b>06</b>	<b>102</b>	<b>0</b>	<b>102</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>120</b>
<b>III Agril. Extension</b>								
Capacity building	03	51	-	51	09	-	09	60
Natural Resource Management	01	17	-	17	03	-	03	20
Fertility Management	01	17	-	17	03	-	03	20
Production and Management technology	01	17	-	17	03	-	03	20
<b>Total</b>	<b>06</b>	<b>102</b>	<b>0</b>	<b>102</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>120</b>
<b>IV Agril. Engineering</b>								
Repair & Maintenance	05	85	-	85	15	-	15	100
Drip Irrigation	01	17	-	17	03	-	03	20
<b>Total</b>	<b>06</b>	<b>102</b>	<b>0</b>	<b>102</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>120</b>
<b>V Home Science/Women empowerment</b>								
Designing and development for high nutrient efficiency diet	01	-	17	17	-	03	03	20
Income generation activities for empowerment of rural Women	02	-	34	34	-	06	06	40
Women and child care	03	-	51	51	-	09	09	60
<b>Total</b>	<b>06</b>	<b>0</b>	<b>102</b>	<b>102</b>	<b>0</b>	<b>18</b>	<b>18</b>	<b>120</b>
<b>VI Fisheries</b>								
Fish seed management	01	17	-	17	03	-	03	20
Aquaculture practice	02	34	-	34	06	-	06	40
Fish feed management	01	17	-	17	03	-	03	20
Integrated fish farming	01	17	-	17	03	-	03	20
Harvest and post-harvest technology	01	17	-	17	03	-	03	20
<b>Total</b>	<b>6</b>	<b>102</b>	<b>0</b>	<b>102</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>120</b>
<b>TOTAL (A)</b>	<b>36</b>	<b>510</b>	<b>102</b>	<b>612</b>	<b>90</b>	<b>18</b>	<b>108</b>	<b>720</b>
<b>(B) RURAL YOUTH</b>								
Seed production	01	08	-	08	02	-	02	10
Vermi-culture	01	08	-	08	02	-	02	10
Natural farming	01	08	-	08	02	-	02	10
Protected cultivation of vegetable crops	01	08	-	08	02	-	02	10
Nursery Magt. of Horticulture crops	01	08	-	08	02	-	02	10
Fertility management	01	08	-	08	02	-	02	10
Diversification	01	08	-	08	02	-	02	10

Repair and maintenance of farm machinery & implements	02	16	-	16	04	-	04	20
Women empowerment	01	-	08	08	-	02	02	10
Value addition	01	-	08	08	-	02	02	10
Fish feed management	01	-	08	08	-	02	02	10
Ornamental fisheries	01	-	08	08	-	02	02	10
<b>TOTAL (B)</b>	<b>13</b>	<b>72</b>	<b>32</b>	<b>104</b>	<b>18</b>	<b>08</b>	<b>26</b>	<b>130</b>
<b>(C) Extension Personnel: Nil</b>								
<b>Grand Total (A+B)</b>	<b>49</b>	<b>582</b>	<b>134</b>	<b>716</b>	<b>108</b>	<b>26</b>	<b>134</b>	<b>850</b>

**b. OFF Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Crop Diversification	01	17	-	17	03	-	03	20
Production of organic inputs	01	17	-	17	03	-	03	20
Weed Management	02	34	-	34	06	-	06	40
Resource Conservation Technologies	01	17	-	17	03	-	03	20
Soil fertility management	02	34	-	34	06	-	06	40
Crop production	02	34	-	34	06	-	06	40
Integrated Nutrient Management	02	34	-	34	06	-	06	40
Integrated Crop Management	01	17	-	17	03	-	03	20
<b>Total</b>	<b>12</b>	<b>204</b>	<b>-</b>	<b>204</b>	<b>36</b>	<b>-</b>	<b>36</b>	<b>240</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	01	17	-	17	03	-	03	20
Production and Management technology	03	51	-	51	09	-	09	60
Off season vegetable	01	17	-	17	03	-	03	20
<b>b) Fruits</b>								
Training and Pruning	01	17	-	17	03	-	03	20
Management of young plants/orchards	04	68	-	68	12	-	12	80
<b>c) Ornamental Plants</b>								
Protected cultivation	01	17	-	17	03	-	03	20
<b>d) Medicinal and Aromatic Plants</b>								
Production and Management technology	01	17	-	17	03	-	03	20
<b>Total</b>	<b>12</b>	<b>204</b>	<b>-</b>	<b>204</b>	<b>36</b>	<b>-</b>	<b>36</b>	<b>240</b>
<b>III Agril. Extension</b>								
Crop production	05	85	-	85	15	-	15	100
Natural resource management	01	17	-	17	03	-	03	20
Integrated crop management	01	17	-	17	03	-	03	20
Integrated pest management	02	34	-	34	06	-	06	40
Fertility management	01	17	-	17	03	-	03	20
Capacity building	02	34	-	34	06	-	06	40
<b>Total</b>	<b>12</b>	<b>204</b>	<b>-</b>	<b>204</b>	<b>36</b>	<b>-</b>	<b>36</b>	<b>240</b>
<b>IV Agril. Engineering</b>								
Repair & Maintenance	10	170	-	170	30	-	30	200
Drip Irrigation	01	17	-	17	03	-	03	20
Operation of laser leveler	01	17	-	17	03	-	03	20
<b>Total</b>	<b>12</b>	<b>204</b>	<b>-</b>	<b>204</b>	<b>36</b>	<b>-</b>	<b>36</b>	<b>240</b>

<b>V Home Science/Women empowerment</b>								
Income generation activities for empowerment of rural Women	02	-	34	34	-	06	06	40
Women and child care	02	-	34	34	-	06	06	40
Designing and development for high nutrient efficiency diet	03	-	51	51	-	09	09	60
Minimization of nutrient loss in processing	01	-	17	17	-	03	03	20
Hygiene and cleanness	01	-	17	17	-	03	03	20
Drudgery reduction	03	-	51	51	-	09	09	60
<b>Total</b>	<b>12</b>	<b>-</b>	<b>204</b>	<b>204</b>	<b>-</b>	<b>36</b>	<b>36</b>	<b>240</b>
<b>VI Fisheries</b>								
Government subsidies and benefit	01	17	-	17	03	-	03	20
Aquaculture practice	03	51	-	51	09	-	09	60
Fish feed management	01	17	-	17	03	-	03	20
Fish disease management	01	17	-	17	03	-	03	20
Ornamental fisheries	01	17	-	17	03	-	03	20
Fish seed production	01	17	-	17	03	-	03	20
Integrated fish farming	02	34	-	34	06	-	06	40
Harvest and post-harvest technology	02	34	-	34	06	-	06	40
<b>Total</b>	<b>12</b>	<b>204</b>	<b>-</b>	<b>204</b>	<b>36</b>	<b>-</b>	<b>36</b>	<b>240</b>
<b>TOTAL(A)</b>	<b>72</b>	<b>1020</b>	<b>204</b>	<b>1224</b>	<b>180</b>	<b>36</b>	<b>216</b>	<b>1440</b>
<b>(B) RURAL YOUTH: Nil</b>								
<b>(C) Extension Personnel :</b>								
Productivity enhancement in field crops	02	26	-	26	04	-	04	30
Integrated Nutrient management	02	26	-	26	04	-	04	30
Layout and management of orchard	01	13	-	13	02	-	02	15
Micro irrigation	01	13	-	13	02	-	02	15
Natural farming	01	13	-	13	02	-	02	15
Rejuvenation of old orchards	01	13	-	13	02	-	02	15
Formation and Management of SHGs	01	13	-	13	02	-	02	15
Capacity building for ICT application	02	26	-	26	04	-	04	30
Integrated pest management	01	13	-	13	02	-	02	15
Operation & Maintenance	03	36	-	36	09	-	09	45
Drip Irrigation	01	13	-	13	02	-	02	15
Household food security	02	-	26	26	-	04	04	30
Women and Child care	02	-	26	26	-	04	04	30
Fish seed production	01	13	-	13	02	-	02	15
Aquaculture practice	01	13	-	13	02	-	02	15
Integrated fish farming	01	13	-	13	02	-	02	15
Ornamental fisheries	01	13	-	13	02	-	02	15
<b>TOTAL (C)</b>	<b>24</b>	<b>257</b>	<b>52</b>	<b>309</b>	<b>43</b>	<b>08</b>	<b>51</b>	<b>360</b>
<b>Grand Total (A+B+C)</b>	<b>96</b>	<b>1277</b>	<b>256</b>	<b>1533</b>	<b>223</b>	<b>44</b>	<b>267</b>	<b>1800</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Crop Diversification	01	17	-	17	03	-	03	20
Production of organic inputs	01	17	-	17	03	-	03	20
Integrated farming	01	17	-	17	03	-	03	20

Nursery management	01	17	-	17	03	-	03	20
Integrated Weed Management	03	51	-	51	09	-	09	60
Resource Conservation Technologies	01	17	-	17	03	-	03	20
Soil fertility management	02	34	-	34	06	-	06	40
Crop production	02	34	-	34	06	-	06	40
Integrated Nutrient Management	05	85	-	85	15	-	15	100
Integrated Crop Management	01	17	-	17	03	-	03	20
<b>Total</b>	<b>18</b>	<b>306</b>	<b>0</b>	<b>306</b>	<b>54</b>	<b>0</b>	<b>54</b>	<b>360</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	02	34	-	34	06	-	06	40
Production of low volume and high value crops	01	17	-	17	03	-	03	20
Production and Management technology	05	85	-	85	15	-	15	100
Off season vegetable	02	34	-	34	06	-	06	40
<b>b) Fruits</b>								
Training and Pruning	01	17	-	17	03	-	03	20
Management of young plants/orchards	04	68	-	68	12	-	12	80
<b>c) Ornamental Plants</b>								
Protected cultivation	01	17	-	17	03	-	03	20
Production and Management technology	01	17	-	17	03	-	03	20
<b>d) Medicinal &amp; Aromatic Plants</b>								
Production and Management technology	01	17	-	17	03	-	03	20
<b>Total</b>	<b>18</b>	<b>306</b>	<b>0</b>	<b>306</b>	<b>54</b>	<b>0</b>	<b>54</b>	<b>360</b>
<b>III Agril. Extension</b>								
Crop production	05	85	-	85	15	-	15	100
Natural resource management	02	34	-	34	06	-	06	40
Integrated crop management	01	17	-	17	03	-	03	20
Integrated pest management	02	34	-	34	06	-	06	40
Fertility management	02	34	-	34	06	-	06	40
Capacity building	05	85	-	85	15	-	15	100
Production and management technology	01	17	-	17	03	-	03	20
<b>Total</b>	<b>18</b>	<b>306</b>	<b>0</b>	<b>306</b>	<b>54</b>	<b>0</b>	<b>54</b>	<b>360</b>
<b>IV Agril. Engineering</b>								
Repair & Maintenance	15	255	-	255	45	-	45	300
Drip Irrigation	02	34	-	34	06	-	06	40
Operation of laser leveler	01	17	-	17	03	-	03	20
<b>Total</b>	<b>18</b>	<b>306</b>	<b>0</b>	<b>306</b>	<b>54</b>	<b>0</b>	<b>54</b>	<b>360</b>
<b>V Home Science/Women empowerment</b>								
Income generation activities for empowerment of rural Women	04	-	68	68	-	12	12	80
Women and child care	05	-	85	85	-	15	15	100
Designing and development for high nutrient efficiency diet	04	-	68	68	-	12	12	80
Minimization of nutrient loss in processing	01	-	17	17	-	03	03	20

Hygiene and cleanness	01	-	17	17	-	03	03	20
Drudgery reduction	03	-	51	51	-	09	09	60
<b>Total</b>	<b>18</b>	<b>0</b>	<b>306</b>	<b>306</b>	<b>0</b>	<b>54</b>	<b>54</b>	<b>360</b>
<b>VI Fisheries</b>								
Government subsidies and benefit	01	17	-	17	03	-	03	20
Aquaculture practice	05	85	-	85	15	-	15	100
Fish feed management	02	34	-	34	06	-	06	40
Fish disease management	01	17	-	17	03	-	03	20
Ornamental fisheries	01	17	-	17	03	-	03	20
Fish seed production	02	34	-	34	06	-	06	40
Integrated fish farming	03	51	-	51	09	-	09	60
Harvest and post-harvest technology	03	51	-	51	09	-	09	60
<b>Total</b>	<b>18</b>	<b>306</b>	<b>0</b>	<b>306</b>	<b>54</b>	<b>0</b>	<b>54</b>	<b>360</b>
<b>TOTAL (A)</b>	<b>108</b>	<b>1530</b>	<b>306</b>	<b>1836</b>	<b>270</b>	<b>54</b>	<b>324</b>	<b>2160</b>
<b>(B) RURAL YOUTH: Nil</b>								
Seed production	01	08	-	08	02	-	02	10
Vermi-culture	01	08	-	08	02	-	02	10
Natural farming	01	08	-	08	02	-	02	10
Protected cultivation of vegetable crops	01	08	-	08	02	-	02	10
Nursery Management of Horticulture crops	01	08	-	08	02	-	02	10
Fertility management	01	08	-	08	02	-	02	10
Diversification	01	08	-	08	02	-	02	10
Repair and maintenance of farm machinery and implements	02	16	-	16	04	-	04	20
Women empowerment	01	-	08	08	-	02	02	10
Value addition	01	-	08	08	-	02	02	10
Fish feed management	01	08	-	08	02	-	02	10
Ornamental fisheries	01	08	-	08	02	-	02	10
<b>TOTAL (B)</b>	<b>13</b>	<b>88</b>	<b>16</b>	<b>104</b>	<b>22</b>	<b>04</b>	<b>26</b>	<b>130</b>
<b>(C) Extension Personnel :</b>								
Productivity enhancement in field crops	02	26	-	26	04	-	04	30
Integrated Nutrient management	02	26	-	26	04	-	04	30
Layout and management of orchard	01	13	-	13	02	-	02	15
Micro irrigation	01	13	-	13	02	-	02	15
Natural farming	01	13	-	13	02	-	02	15
Rejuvenation of old orchards	01	13	-	13	02	-	02	15
Formation and Management of SHGs	01	13	-	13	02	-	02	15
Capacity building for ICT application	02	26	-	26	04	-	04	30
Integrated pest management	01	13	-	13	02	-	02	15
Operation & Maintenance	03	39	-	39	06	-	06	45
Drip Irrigation	01	13	-	13	02	-	02	15
Household food security	02	-	26	26	-	04	04	30
Women and Child care	02	-	26	26	-	04	04	30
Fish seed production	01	13	-	13	02	-	02	15
Aquaculture practice	01	13	-	13	02	-	02	15
Integrated fish farming	01	13	-	13	02	-	02	15

Ornamental fishries	01	13	-	13	02	-	02	15
<b>TOTAL (C)</b>	<b>24</b>	<b>260</b>	<b>52</b>	<b>312</b>	<b>40</b>	<b>08</b>	<b>48</b>	<b>360</b>
<b>Grand Total (A+B+C)</b>	<b>145</b>	<b>1878</b>	<b>374</b>	<b>2252</b>	<b>332</b>	<b>66</b>	<b>398</b>	<b>2650</b>

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	472	10	482	--	--	--	472	10	482
Kisan Mela	02	500	100	600	--	--	--	500	100	600
Kisan Gosthi	15	3220	50	3270	--	--	--	3220	50	3270
Exhibition	02	650	--	650	50	--	50	700	--	700
Film Show	04	400	--	400	--	--	--	--	--	400
Farmers Seminar	16	132	--	128	--	--	--	132	--	128
Workshop	04	76	14	90	--	--	--	76	14	90
Group meetings	2	-	-	-	-	-	-	-	-	-
Lectures delivered as resource persons	24	244	20	264	--	--	--	244	20	264
Newspaper coverage	20	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	10	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	12	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
<b>Advisory Services</b>										
Scientific visit to farmers field	600	1580	--	1580	--	--	--	1580	--	1580
Farmers visit to KVK	600	1250	50	1300	--	--	--	1250	50	1300
Diagnostic visits	50	135	5	140	8	2	10	143	7	150
Exposure visits	02	100	--	100	--	--	--	100	--	100
Ex-trainees Sammelan	08	160	10	170	--	--	--	160	10	170
Agri mobile clinic	03	155	05	160	--	--	--	155	05	160
Self Help Group Conveners meetings	15	-	54	54	--	--	--	-	54	54
Mahila Mandals Conveners meetings	04	675	35	710	--	--	--	675	35	710
Celebration of important days	04	100	--	100				100	--	100
Pre Kharif workshop	01	400	15	415	20	--	20	420	15	435
Pre Rabi workshop	01	400	15	415	20	--	20	420	15	435
PPVFRA workshop	01	100	--	100	05	--	05	105	--	105
PMFBY Sammelan	<b>01</b>	<b>350</b>	<b>50</b>	<b>400</b>	<b>20</b>	<b>--</b>	<b>20</b>	<b>420</b>	<b>50</b>	<b>470</b>
<b>Total</b>	<b>1421</b>	<b>11099</b>	<b>433</b>	<b>11528</b>	<b>123</b>	<b>2</b>	<b>125</b>	<b>10872</b>	<b>435</b>	<b>11703</b>

### 3.5 Target for Production and supply of Technological products

Seed Materials: N.A.

Sl. No	Crop	Variety	Quantity (Qt)
<b>Cereals</b>			
	-	-	-

Planting Material:

Sl. No	Crop	Variety	Quantity (Nos )
<b>Vegetables</b>			
1	Onion	NHRDF Red-4 and Bhima Shakti	20000
<b>Ornamental plants</b>			
1	Winter seasonal (dog flower, Dimorphothica, Sweet Wliiiam, Sweet Allysum, Calendula, Marigold, Salvia and hollyhock)	-	5000
<b>Total</b>			<b>25000</b>

Sapling:

Sl. No	Crop	Variety	Quantity (Nos )
1	Papaya	Red lady	1000

Bio-products & Others

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>Bio fertilizer</b>				
1	Vermi Compost	--	--	500
2	Worms	<i>Aisenia Foetida</i>	--	50
3.	Honey Processing	--	--	2000
4.	Bio- Pesticide	<i>Trichoderma viride</i> <i>Beauveria bassiana</i> <i>Metarrhizium anisoplae</i>	--	100 100 100
5.	Spawn	Button & oyster	--	100

### 3.6. Literature to be Developed/Published

(A) Krishi Panchang : 1000

(B) Literature developed/published :

Item	No.	Number of copies
Research papers	5	--
Technical reports	10	--
News letters	--	--
Technical bulletins	3	2500
Popular articles	20	--
Extension literature	8	8000
Others (Krishi Panchang)	01	1000
<b>TOTAL</b>	<b>49</b>	<b>11500</b>

(C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Management of Mango	1
		Scientific cultivation of Gladiolus	1
		Vermi Compost	1
		Nursery Management	1



### 3.7. Success stories/Case studies identified for development as a case : 05

1. Fruit Fly mgt through Methyl Ugenol flytrap
2. Urd Intercropping with Sugarcane
3. Introduction of Mung as summer pulse
4. Self Employment of Rural Youths through Mushroom cultivation
5. Self Help Group of Rural Women for income generating activity
6. Nutrient mgt. through Soil Health Card (SHC)

- b. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

### 3.8. Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women - PRA
- Rural Youth - PRA
- In service personnel - As per requirement

### 3.9 Indicate the methodology for identifying OFTs/FLDs - For OFT

4. Field level observations
5. Farmer group discussions
6. Spread of Problem (Area and No of Farmers)

#### For FLD

- xlii) New variety/technology
- xliii) Poor yield at farmers level
- xliv) Existing cropping system

### 3.10 Field activities

#### i. Name of villages identified for adoption with block name

S.No.	Block	Village
1.	Khatauli	Bhangela, Pal
2.	Jansath	Nangla Kabir, Talda, Jandhedi, Lalpur
3.	Maurna	Bhopa and Kakroli
4	Purkaji	Serpur, Amlawala and Hariwala

ii. No. of farm families selected per village : 100 each

iii. No. of survey/PRA to be conducted : 04

iv. No. of technologies taken to the adopted villages :  
3-4 technologies by each scientist

v. Name of the technologies found suitable by the farmers of the adopted villages : To be taken up next year

vi. Impact (production, income, employment, area/technological–horizontal/vertical) : To be taken up next year

vii. Constraints if any in the continued application of these improved technologies : To be taken up next year

### 3.11. Activities of Soil and Water Testing Laboratory

Status of Establishment of Lab : N.A.

1. Year of Establishment : -

2. List of Equipments purchased with amount : -

3. Target for samples for analysis : -

## 4.0 LINKAGES

### 4.1. Functional Linkages with different Organizations :

S. No.	Name of organization	Nature of Linkages	No. of Prog.
1.	Agriculture Department	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela. Demo	100
2.	Horticulture Department	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	20
3.	Animal Husbandry Deptt.	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	10
4.	Plant Protection Deptt.	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	10
5.	ATMA	Farmers Scientist Interaction, Trg., Goshthi, Kisan Mela, Exposure visit	30
6.	Sugarcane Research Institute	Participation in Meeting, Source of Planting material,	1
7.	Ganna Kisan Sansthan	Training Programme	8
8.	IFFCO, KRIBHCO, NFL, etc.	Training Programme & Demo. Goshthies	6
9.	National Horti. Dev. Foundation	Training Programme & Demo.	2
10.	Sugar mills	Participation in Kisan Goshthi, Kisan Mela.	4
11.	NGO's	Training Programme, Goshthi & Mela	5
12.	NABARD, Banks	Training Programme, Kisan Club/SHG	12
13.	Ramganga Command Pariyojana	Training Programme	8
14.	Zila Vigyan Club	Training, Goshthies & Kisan Mela	4
15.	Bhoomi Sanrakshan Adhikari	Training	4
16.	Seed Development Corp.	Training, Seed production	4
17.	Distt. Cane Deptt.	Training, Kisan Mela, & Goshthi	5
18.	CDPO	Training Programme	3

### 4.2 Special programme to be undertaken by KVK with finance by State/ Other Agencies

Name of Scheme	No of Programme	Funding agency
FTT	2	SVPUA&T, Meerut
ATMA (F-S Interaction)	2	Dept of Agril., MZN
NHM (Trg. )	4	Dept of Horticulture ,MZN

### 4.3 Details of Linkages with ATMA

Is ATMA implemented in your district : Yes

### 4.4 Programmes to be implemented under National Horticulture Mission

Sl.No	Programme	Nature of Linkages	Remarks
1.	Training Programme - 4	Technical	--

#### 4.5. Nature of linkages with National Fisheries Board

Sl.No	Programme	Nature of Linkages	Remarks
1.	Training	Technical	--

5.0 Utilization of hostel facilities : N.A.  
Accommodation available (No. of beds) : -

6.0 Convergence with departments : nil

7.1 Details of the programmes being implemented by your KVK in partnership with other institution

A. Designated as Local Coordinator by DDG, NRM, ICAR for collaborative with Implementing ICAR Institutes. The ICAR Institutes involved are as under.

- g. Indian Institute of Water Management, Bhubaneswar, Odisha
- h. Indian Institute of farming System Research, Modipuram
- i. Water Technology Center, IARI, Pusa New Delhi
- j. Central Soil & Water Conservation Research & Training Institute, Dehradun
- k. Central Soil Salinity Research Institute Karnal
- l. Central Institute for Research on Cattle, Meerut

B. Technology Demonstration in Collaboration with ICAR Institutes . The collaborative partners are as under

1. Indian Institute of Wheat and Barley, Karnal
2. Indian Institute of Mustard Research, Bharatpur (Rajasthan)
3. Central Avian research Institute (CARI, Bareilly)
4. Mushroom Spawn Lab, SVPUA&T, Meerut

7.2. Brief achievements of above collaborative programmes

S. No.	Name of Programme	Salient achievement	Impact of the programme
1	The details are as given below		

S.No	Name of Institute	Crop	Technology/Variety	Area (ha).	No of Demo
1.	Directorate of Mustard Research , Bharatpur Rajasthan	Mustard	NRCHB-101, RH-406	40.00	104
2.	IIWBR, Karnal	Wheat (Timely Sown)	WH 1105	7.0	11
		Wheat (Late Sown)	DBW-16 & DBW-71	1.3	13

**8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period**

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	TSP Project	NA	
2	ARYA Project	Entrepreneurship development Bee Keeping & Poultry Farming	
3	CFLD-NFSM Project	Separate Report is attached	
	i. Kharif season	Urd- 20 ha – 50 Demo.	
	ii. Rabi season	Lentil – 10 ha- 25 Demo	
	iii. Summer season	Urd- 10 ha – 25 Demo. Mung- 10 ha- 25 Demo.	
4	CSISA Project	NA	
5	NICRA Project	Separate Report Attached	
6	Soil Health Card		
	Total		

**9. Feedback of the farmers about the technologies demonstrated and assessed :**

- RH 749 variety of Mustard gave highest yield of 24 qt/ha when planted on 25th Oct.
- PL 8 variety of Lentil performed better in moisture stress condition.
- PU 31 variety of Urd Bean is best in terms of yield and resistant against YMV
- Soil test based fertilizer application resulted in saving of Rs. 1400-1500 /ha.
- Soil Moisture Indicator (SMI) based irrigation scheduling resulted in saving of 3-4 irrigation in Sugarcane.
- PB 1509 transplanted in first week of August gave better quality rice in comparison to June transplanting.
- Mineral mixture supplementation is able to cure repeat breeding

**10. Feedback from the KVK Scientists (Subject wise) to the research institutions /universities :**

- Control of Cyprus rotundas with 67.5 g Hulosulfuron at 3-4 leaf stage is very effective in Sugarcane.
- Fruity fly trap in Guava is able to control only 80% of flies
- DBW 71 variety of Wheat performed best in campaign to other late sown varieties when sowing was done between 15-20 January after Sugarcane harvesting
- Agri found light red variety of onion performed best in terms of yield and keeping quality in comparison to other prevailing local varieties.
- Chabro strain best for backyard poultry.

## Training Programme

### DETAIL ACTION PLAN OF TRAINING JANUARY TO DECEMBER 2023

#### ii) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
Jan., 23	PF	INM in Spring sugarcane	01	17	-	3	3	-	3	20
Mar., 23	PF	Integrated farming system	01	17	-	3	3	-	3	20
June, 23	PF	Nursery preparation technique of paddy	01	17	-	3	3	-	3	20
Aug., 23	PF	IWM in paddy	01	17	-	3	3	-	3	20
Sep., 23	PF	INM in Mustard	01	17	-	3	3	-	3	20
Nov., 23	PF	IWM in Wheat	01	17	-	3	3	-	3	20
<b>Horticulture</b>										
Jan., 23	PF	Improved production technique of marigold	01	17	-	3	3	-	3	20
Mar., 23	PF	Nursery raising of vegetable	01	17	-	3	3	-	3	20
June, 23	PF	Kharif Onion prod. technology	01	17	-	3	3	-	3	20
July, 23	PF		01	17	-	3	3	-	3	20
Sept., 23	PF	Capsicum growing for higher returns	01	17	-	3	3	-	3	20
Nov., 23	PF	Off season vegetable production	01	17	-	3	3	-	3	20
<b>Agril. Extension</b>										
Mar., 23	PF	Integrated Farming System (IFS)	01	17	-	3	3	-	3	20
May 23	PF	Application of ICT in agriculture	01	17	-	3	3	-	3	20
July, 23	PF	Vermi-compost production technique	01	17	-	3	3	-	3	20
Sep., 23	PF	Constitution of Self Help Group	01	17	-	3	3	-	3	20
Oct., 23	PF	Pulses cultivation in Rabi	01	17	-	3	3	-	3	20
Dec., 23	PF	Preparation of business plan for FPO	01	17	-	3	3	-	3	20
<b>Agril. Engineering</b>										
Feb., 23	PF	Maintenance of thresher	01	17	-	3	3	-	3	20
Apr., 23	PF	Maintenance of tractor	01	17	-	3	3	-	3	20
May, 23	PF	Deep tillage implements and its maintenance	01	17	-	3	3	-	3	20
Aug., 23	PF	Maintenance of sprayer and duster	01	17	-	3	3	-	3	20

Nov., 23	PF	Operation & maintenance of happy seeder	01	17	-	3	3	-	3	20
Dec., 23	PF	Maintenance of tractor	01	17	-	3	3	-	3	20
<b>Home Science</b>										
10 Jan., 23	PF	Child balanced diet	1	-	17	17	3	-	3	20
20 Feb., 23	PF	Food adulteration & its testing at house hold level	1	-	17	17	3	-	3	20
22 May, 23	PF	Mushroom cultivation as subsidiary occupation	1	-	17	17	3	-	3	20
20 July, 23	PF	Stain removal: Basic concept and methods	1	-	17	17	3	-	3	20
15 Sept., 23	PF	High nutrient efficiency diet for women	1	-	17	17	3	-	3	20
23 Oct., 23	PF	Recycling old clothes to prepare household products	1	-	17	17	3	-	3	20
<b>Fisheries</b>										
Jan., 23	PF	Hatchery construction	1	-	17	17	3	-	3	20
Mar., 23	PF	Carp culture technique	1	-	17	17	3	-	3	20
April, 23	PF	Balanced fish feed production techniques	1	-	17	17	3	-	3	20
Aug., 23	PF	Integrated fish cum animal farming	1	-	17	17	3	-	3	20
Nov., 23	PF	Technique of fish harvest	1	-	17	17	3	-	3	20
Dec., 23	PF	Aquaculture pond construction	1	-	17	17	3	-	3	20

**i) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
Jan. 23	PF	Improved production technique of spring sugarcane	01	17	-	17	3	-	3	20
Feb. 23	PF	Crop Diversification with inclusion of legume in cropping system	01	17	-	17	3	-	3	20
Feb 23	PF	Vermi-compost production technique	01	17	-	17	3	-	3	20
Mar 23	PF	Weed management in summer pulses	01	17	-	17	3	-	3	20
April 23	PF	Integrated weed management in sugarcane	01	17	-	17	3	-	3	20
May 23	PF	Role of mulching in sugarcane	01	17	-	17	3	-	3	20
June 23	PF	Role of Green manure in soil health	01	17	-	17	3	-	3	20

Aug. 23	PF	Improved planting technique of Kharif pulse	01	17	-	17	3	-	3	20
Aug 23	PF	Foliar fertilization in Kharif pulse	01	17	-	17	3	-	3	20
Sept. 23	PF	Role of sulphar in oilseed crop	01	17	-	17	3	-	3	20
Oct. 23	PF	Integrated crop management of Autumn sugarcane	01	17	-	17	3	-	3	20
Dec., 23	PF	Importance of Biofertilizer in crop production	01	17	-	17	3	-	3	20

### Horticulture

Jan., 23	PF	Improved production technique of okra	01	17	-	17	3	-	3	20
Feb., 23	PF	Protected cultivation of roses and gerbera	01	17	-	17	3	-	3	20
Mar., 23	PF	Natural farming of mango	01	17	-	17	3	-	3	20
April, 23	PF	Natural farming of guava and litchi	01	17	-	17	3	-	3	20
May, 23	PF	Importance and use of mulching in fruit crops	01	17	-	17	3	-	3	20
June, 23	PF	Virus free nursery raising of vegetable crops	01	17	-	17	3	-	3	20
July, 23	PF	Cultivation of medicinal and aromatic plants	01	17	-	17	3	-	3	20
Aug., 23	PF	Dragon fruit cultivation	01	17	-	17	3	-	3	20
Sept., 23	PF	Scientific cultivation of potato	01	17	-	17	3	-	3	20
Oct., 23	PF	Scientific cultivation of onion and garlic	01	17	-	17	3	-	3	20
Nov., 23	PF	Production of Off Season vegetable crops	01	17	-	17	3	-	3	20
Dec., 23	PF	Training and pruning of fruit crops	01	17	-	17	3	-	3	20

### Agril. Extension

09 Jan., 23	PF	IPM in Rabi pulses	01	17	-	17	3	-	3	20
13 Feb., 23	PF	Pulses cultivation in summer	01	17	-	17	3	-	3	20
05 April, 23	PF	Soil sampling and testing	01	17	-	17	3	-	3	20
23 May, 23	PF	Application of Trychochards in Sugarcane to control the borer	01	17	-	17	3	-	3	20
14 June, 23	PF	Pulses cultivation in Kharif	01	17	-	17	3	-	3	20
31 July, 23	PF	Rain water harvesting	01	17	-	17	3	-	3	20
07 Aug., 23	PF	Water management in Pulses	01	17	-	17	3	-	3	20
28 Sept., 23	PF	Improved cultivation of Mustard	01	17	-	17	3	-	3	20

10 Oct., 23	PF	Preparation of business plan for FPO	01	17	-	3	3	-	3	20
02 Nov., 23	PF	Pulses cultivation in Rabi	01	17	-	17	3	-	3	20
28 Nov., 23	PF	Aphid control in Mustard	01	17	-	17	3	-	3	20
04 Dec., 23	PF	Constitution of Self Help Group	01	17	-	17	3	-	3	20
<b>Agril. Engineering</b>										
21 Jan. 23	PF	Maintenance of Tractor	01	17	-	17	3	-	3	20
10 Feb. 23	PF	Drip irrigation system in Sugarcane	01	17	-	17	3	-	3	20
03 Mar., 23	PF	Maintenance of seed drill	01	17	-	17	3	-	3	20
09 Apr. 23	PF	Operation and maintenance of paddy trans planter	01	17	-	17	3	-	3	20
21 May 23	PF	Operation of laser leveler	01	17	-	17	3	-	3	20
12 Jun., 23	PF	Operation and maintenance of multi crop planter	01	17	-	17	3	-	3	20
23 July 23	PF	Operation and maintenance of Mulcher	01	17	-	17	3	-	3	20
19 Aug., 23	PF	Operation and maintenance of M.B.Plough	01	17	-	17	3	-	3	20
03 Sept. 23	PF	Operation and maintenance of Sugarcane planter	01	17	-	17	3	-	3	20
20 Oct. 23	PF	Operation and maintenance of happy seeder	01	17	-	17	3	-	3	20
05 Nov. 23	PF	Maintenance of Harrow and tiller	01	17	-	17	3	-	3	20
18 Dec. 23	PF	Maintenance of thresher	01	17	-	17	3	-	3	20
<b>Home Science</b>										
21 <sup>st</sup> Jan., 2021	PF	Women empowerment through entrepreneurship development	1	-	17	17	-	3	3	20
23 Feb., 23	PF	Awareness on digitalization	1	-	17	17	-	3	3	20
22 Marc. 23	PF	Awareness on Deficiency diseases in women	1	-	17	17	-	3	3	20
20 April, 23	PF	Importance of cleanliness in our Daily life and air borne diseases	1	-	17	17	-	3	3	20
28 May, 23	PF	Importance of work ergonomics	1	-	17	17	-	3	3	20
17 June, 23	PF	Importance of Immunization and its schedule	1	-	17	17	-	3	3	20
23 July, 23	PF	Importance of Millets& th nutritive value	1	-	17	17	-	3	3	20
20 Aug., 23	PF	Importance of vitamin & minerals in diet	1	-	17	17	-	3	3	20
20 Sept., 23	PF	Minimization of nutrient loss in processing	1	-	17	17	-	3	3	20
29 Oct., 23	PF	Dietary supplements : its need and importance	1	-	17	17	-	3	3	20



20 Nov., 23	PF	Different work simplification techniques at household level	1	-	17	17	-	3	3	20
22 Dec., 23	PF	Reduction of time & drudgery by the use of improved Agricultural implements	1	-	17	17	-	3	3	20
<b>Fisheries</b>										
Jan, 23	PF	Government subsidies available for aquaculture	1	-	17	17	-	3	3	20
Feb, 23	PF	Types of commercially important cultured fishes	1	-	17	17	-	3	3	20
Mar., 23	PF	Types of aquaculture practices	1	-	17	17	-	3	3	20
April, 23	PF	Types and various sources of fish feed	1	-	17	17	-	3	3	20
May, 23	PF	Prophylactic and treatment measures of various fish diseases	1	-	17	17	-	3	3	20
June, 23	PF	Ornamental fish culture	1	-	17	17	-	3	3	20
July, 23	PF	Fish seed production	1	-	17	17	-	3	3	20
July, 23	PF	Integrated fish cum agriculture farming	1	-	17	17	-	3	3	20
Aug, 23	PF	Integrated fish cum horticulture farming	1	-	17	17	-	3	3	20
Sep., 23	PF	Fish marketing strategy	1	-	17	17	-	3	3	20
Nov, 23	PF	Fish post-harvest techniques	1	-	17	17	-	3	3	20
Dec, 23	PF	Aquaculture pond management	1	-	17	17	-	3	3	20

## ii) Vocational training programmes for Rural Youth (On Campus)

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G. Total
					M	F	T	M	F	T	
<b>Crop Production</b>											
Vermi-compost	Organic manure	Vermi-compost production	Jan.	5	8	0	8	2	0	2	10
Wheat	Seed Production	Seed production	May	5	8	0	8	2	0	2	10
<b>Horticulture</b>											
Horticultural Crops	Natural farming	Natural farming of horticultural crops	Feb.	5	8	0	8	2	0	2	10

Fruits & Vegetable	Nursery management	Nursery growing of horticultural crops for livelihood	July	5	8	0	8	2	0	2	10
Flowers	Protected cultivation	Protected cultivation of commercial flowers.	Nov.	5	8	0	8	2	0	2	10

### Agril. Extension

Soil Health card	Soil Health Management	Soil testing in field crops.	Apr.	5	8	0	8	2	0	2	10
Mushroom	Mushroom Production	Mushroom Production technology	Sep.	5	8	0	8	2	0	2	10

### Agril. Engineering

Repair and maintenance	Skill Development	Repair and maintenance of diesel engine	Aug.	5	8	0	8	2	0	2	10
Repair and maintenance	Skill Development	Repair and maintenance of ploughing implements	Nov.	5	8	0	8	2	0	2	10

### Home Science

Fabric	Women empowerment	Fabric designing through block printing	Feb	5	8	0	8	2	0	2	10
Cow dung	Value addition	Cow dung products making for income generation	May	5	8	0	8	2	0	2	10

### Fisheries

Fish	Ornamental fisheries	Aquarium construction and management	Sept, 23	5	8	0	8	2	0	2	10
Fish	Fish feed management	Balanced fish feed production techniques	April, 23	5	8	0	8	2	0	2	10

### Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
Feb. 23	EF	Management of sugarcane ratoon	1	13	0	13	2	0	2	15

June 23	EF	Integrated Nutrient management of field crop	1	13	0	13	2	0	2	15
Aug. 23	EF	“GAP” for higher crop productivity and profitability	1	13	0	13	2	0	2	15
Nov. 23	EF	Site specific nutrient management in field crop	1	13	0	13	2	0	2	15
<b>Horticulture</b>										
Feb. 23	EF	Management of Mango Orchard.	1	13	0	13	2	0	2	15
June 23	EF	Judicious use of irrigation water in horticultural crops	1	13	0	13	2	0	2	15
Aug. 23	EF	Natural farming of mango, guava and Litchi	1	13	0	13	2	0	2	15
Nov. 23	EF	Rejuvenation of old and senile mango orchard	1	13	0	13	2	0	2	15
<b>Agril. Extension</b>										
Jan., 23	EF	Constitution of Self Help Group	1	13	0	13	2	0	2	15
Aug. 23	EF	Role of ICT in Agriculture	1	13	0	13	2	0	2	15
Oct. 23	EF	Result and method demonstration	1	13	0	13	2	0	2	15
Dec. 23	EF	IPM in Rabi Pulses	1	13	0	13	2	0	2	15
<b>Agril. Engineering</b>										
Feb. 23	EF	Operation of Laser leveler	1	13	0	13	2	0	2	15
June., 23	EF	Operation of self-propelled paddy transplanter	1	13	0	13	2	0	2	15
Aug., 23	EF	Operation of happy seeder	1	13	0	13	2	0	2	15
Oct., 23	EF	Maintenance of sprayer and duster	1	13	0	13	2	0	2	15
<b>Home Science</b>										
Jan., 23	EF	Importance of balanced diet	1	0	13	13	0	2	2	15
Aug. 23	EF	Dietary modification of nutritional deficiencies in children below 5 yrs.	1	0	13	13	0	2	2	15
Oct. 23	EF	Awareness on causes, diagnose and precautionary measures for breast cancer.	1	0	13	13	0	2	2	15
Dec. 23	EF	Child nervous disorders and care	1	0	13	13	0	2	2	15
<b>Fisheries</b>										
Aug, 23	EF	Hatchery construction	1	0	13	13	0	2	2	15
Dec, 23	EF	Aquaculture pond	1	0	13	13	0	2	2	15

		management								
Feb, 23	EF	Integrated fish cum agriculture farming	1	0	13	13	0	2	2	15
June, 23	EF	Ornamental fish culture	1	0	13	13	0	2	2	15

X-----X



# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA RAMPUR**

# DETAILS OF ACTION PLAN OF KVK, RAMPUR

(JAUNAURY to DECEMBER, 2023)

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.3. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Dhamora-Rampur (U.P.)	Office	FAX	<u>rampurkvk@gmail.com</u>
	-	-	

### 1.4. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Sardar Vallabhbhai Patel University of Ag. & Tech, Meerut (U.P.)	0121-2411511	0121-2411540	deesvpuat2014@gmail.com

### 1.5. Status of KVK website: <https://rampur.kvk4.in>

### 1.6. No. of Visitors (Hits) to your KVK website (as on today) : 118964

### 1.7. Status of ICT lab at your KVK : NIL

### 1.8. Name of the Sr. Scientist & Head with phone & mobile no.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Faiz Mohsin	-	9719244864	drfaizmohsin@gmail.com

### 1.9. Year of sanction: 1992

### 1.5. Staff Position (as on 01 April. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile no.	Email id	Recent photo graph
1	Programme Coordinator	Dr. Faiz Mohsin	Professor & Incharge	Agro Forestry	Column (14)	193800	05.07.1996	Permanent	Gen	9719244864	drfaizmohsin @gmail.com	
2	Subject Matter Specialist	Dr. Suneeta Pant	SMS /Asstt.Prof.	Home Sc.	Column (11)	98300	23.06.2008	Permanent	Gen	9412048417	suneetapt@gmail.com	
3	Subject Matter Specialist	Dr. Narendra Singh	SMS /Asstt.Prof.	Agronomy	Column (11)	95400		Permanent	Gen	9457168051	gnarendra1976@gmail.com	
4	Subject Matter Specialist	Dr. Ashish Kumar	SMS/T6	Horticulture	Column (10)	56100	01.07.2022	Permanent	OBC	8868828508	dr.ashishkumardangi@gmail.com	
5	Subject Matter Specialist	Dr. Anuj Bansal	SMS/T6	Plant Protection	Column (10)	56100	01.07.2022	Permanent	OBC	7417315657	drbansal2022@gmail.com	
6	Subject Matter Specialist	Dr. Rupam Sinha	SMS/T6	Animal Science	Column (10)	56100	01.07.2022	Permanent	EWS	8707779659	drsinhabhu@gmail.com	
7	Programme Assistant	Dr. R.N.Singh	Trg. Asstt.	Fisheries	Column (9)	90300	18.02.1995	Permanent	OBC	9411037240	rnsingh14545@yahoo.com	
8	Computer Programmer	Bhagwan Singh Negi	Prog. Asstt./ Computer Programmer	Computer	Column (7)	56900	18.08.2007	Permanent	Gen	9453381682	bsnegi.05@gmail.com	
9	Farm Manager	Dr. Hamvir Singh	Prog. Asstt./ Farm Manager	Plant Breeding	Column (7)	72100	18.08.2007	Permanent	OBC	9759173168	hamveersingh15@gmail.com	
10	Accountant / Superintendent	Sh. G.D.Deorari	Office Supdt Cum Acctt.	-	Column (8)	56900	18.09.2000	Permanent	Gen	9412362334		
11	Driver	Sh Sandeep Kumar	Driver		Column (4)	33300	31.12.2003	Permanent	SC	9458739410	-	
12	Supporting staff	Sh Vinod Kr.	Attendant	-	Column (1)	26800	22.11.2010	Permanent	SC	9760671748	-	

**1.6. Total land with KVK (in ha): 12.813 ha**

S. No.	Item	Area (ha)
1	Under Buildings	1.512
2.	Under Demonstration Units	0.340
3.	Under Crops	7.500
4.	Horticulture	2.640
5	Pond	0.00
5.	Others (Irrigation channels, Chuck Road, bunds etc.)	0.821
	<b>Total</b>	<b>12.813</b>

**1.7. Infrastructural Development:**

**C) Buildings**

S. No.	Name of building	Source of funding	Stage						Require d New	Needs renovation
			Complete			Incomplete				
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction		
1.	Administrative Building	ICAR		550.00	-					
2.	Farmers Hostel	ICAR		298.12	1643000.00					
3.	Staff Quarters (6)	ICAR		440.00	2669800.00					
4.	Demonstration Units (2)	ICAR		160.00	1105837.00					
5	Compound wall/ Fencing	ICAR		1000 R/M	1922000.00					
6	Rain Water harvesting system	-		-	-					
7	Threshing floor	ICAR		300.00	225000.00					
8	Farm go down	ICAR		60.00	362671.00					
9	Irrigation Channel	ICAR		1200 R/M	991440.00					
10	Soil testing lab	ICAR								

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	Required replacement
Bolero Jeep	2 July 2009	507000.00	203941 km	Working	
Tractor (Sonalika)	March 2017	520868.00	-	Working	
Bicycle	20.11.2003	1500.00	-	Working	

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status	Required replacement
O.H. Projector	Transferred from Pantnagar on 05.09.1995	-	Not in Working Condition	
Slide Projector	Transferred from Pantnagar on 05.09.1995	-	Not in Working Condition	
Panasonic LCD multimedia projector with SD memory card reader	30.03.2007	68125.00	Working Condition	
Camera hot shot	Transferred from Pantnagar on 05.09.1995	-	Not in Working Condition	
Sony Digital camera	31.03.2004	15300.00	Not working order	
Sony WX Camera	14.03.2014	14200.00	Working order	



**1.8 A) Details of SAC meetings to be conducted in the year:**

Sl. No.	Date
1. Scientific Advisory Committee	01 November, 2021

**2. DETAILS OF DISTRICT**

**2.1 Major farming systems/enterprises (based on the analysis made by the KVK)**

S. No	Farming system/enterprise
1.	Agriculture- Horticulture- Agro forestry
2.	Agriculture- Dairying- Agro forestry
3.	Agriculture- Goat rearing
4.	Agriculture- Poultry
5.	Poultry
6.	Fishery
7.	Bee keeping
8.	Horticulture
9.	Agro forestry

**2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)**

**a. Soil types**

S. No	Soil type	Characteristics
1	Silt clay loam	-
2	Loam and Sandy loam	-
3	Loamy Sand	-
4	Sandy Soil	-

**b) Topography**

S. No	Agro-climatic Zone	Characteristics	Agro ecological situation	Characteristics
1	Mid western Plain zone	The soils are coarse to medium in texture, neutral to slightly alkaline in nature. Moderately well drained, consistently deep and neutral to slightly alkaline in nature. Climate is the zone in general to subtropical monsoon type. The rain fall in distt., rampur varies from 600 mm to 965 mm. About 77% area of the distt., is irrigated and rest 23% area is unirrigated. The crop of the zone are rice, urd , wheat s, toria , sugarcane, lentil and mentha. Tha max temp of the distt. varies form 42 to 44°C and min 1 to 6°C.	AES-I	The soils are low to medium in available phosphorus, medium to high in organic carbon. Bilaspur and Suar tehsils area falls under this AES. The major crops grown are paddy, wheat, sugarcane, toria, mentha, sunflower etc.
2			AES-II	The soils are low to medium in available phosphorus and organic carbon. Shahabad, Sadar, Tanda and Milak tehsil area falls under this AES. The major crops grown are paddy, wheat, sugarcane, toria, lentil , mentha etc.

**2.3 Soil Types**

S. No	Soil type	Characteristics	Area in ha
1	Silt clay loam	-	25
2	Loam and Sandy loam	-	55
3	Loamy Sand	-	15
4	Sandy Soil	-	4

#### 2.4. Area, Production and Productivity of major crops cultivated in the district (2020-21)

S. No	Crop	Area (ha)	Production (m.t.)	Productivity (Qt /ha)
1	Rice	116154	260766	22.40
2	Wheat	148645	486069	32.00
3	Barley	29	66	22.00
4	Jawar	602	574	0.95
5	Bajra	3394	2746	0.81
6	Maize	485	724	10.40
	<b>Total Cereals</b>	<b>269309</b>	<b>750945</b>	<b>88.56</b>
7	Urd	4964	5848	11.70
8	Moong	14	02	0.14
9	Lentil	-	-	-
10	Gram	-	-	-
11	Pea	1242	1594	12.80
12	Arahar	52	72	13.84
	<b>Total Pulses</b>	<b>6272</b>	<b>7516</b>	<b>38.48</b>
	<b>G.Total Food Grains</b>	<b>275581</b>	<b>758461</b>	<b>127.04</b>
13	Mustard	4125	4426	10.70
14	Til	11	01	0.09
15	Soyabean	68	72	10.50
	<b>Total Oilseeds</b>	<b>4204</b>	<b>4499</b>	<b>21.29</b>

#### 2.5. Weather data: (2020-21)

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
-					
Apr., 22	17.7	40	24		
May., 22	26.7	43	28		
Jun., 22	81.5	43	30		
July., 22	323.1	37	28		
Aug., 22	329.1	35	26		

#### 4.7. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<b>Buffalo</b>	348998	-	-
<b>Sheep</b>			
<b>Goats</b>			
<b>Pigs</b>			
<i>Crossbred</i>	29585	-	-
<i>Indigenous</i>	101510	-	-
<b>Rabbits</b>			
<b>Poultry</b>			
Hens			
<i>Desi</i>			
<b>Category</b>		Production (Q.)	Productivity
Fish (Reservoir)	360.636		26 q/ha

#### 2.7 Details of Operational area / Villages

Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Sadar	Chamroua	Daniapur Shankarpur	Paddy	Low yield	<ul style="list-style-type: none"> <li>Integrated Nutrient Management</li> <li>Integrated Pest Management</li> <li>Weed management</li> <li>Water management</li> </ul>
		Dohariya	Wheat	Low yield	<ul style="list-style-type: none"> <li>Integrated Nutrient Management</li> <li>Integrated Pest Management</li> <li>Weed management</li> </ul>

			Urd	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Toria	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Mentha	Low yield	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Mango	Low yield	Poor management
			Poplar	Low growth	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> <li>• Scientific planting technique</li> </ul>
			Cattle	Low yield	<ul style="list-style-type: none"> <li>• Green fodder production</li> <li>• Supplementation of mineral mixture and salt in feed</li> <li>• Management and balanced feeding of farm animals</li> <li>• Control of Animal Disease and abdominal worms</li> </ul>
			Buffalo	Low yield	<ul style="list-style-type: none"> <li>• Green fodder production</li> <li>• Supplementation of mineral mixture and salt in feed</li> <li>• Management and balanced feeding of farm animals</li> <li>• Control of Animal Disease and abdominal worms</li> </ul>
Milak	Milak	Puraniya Zadiz	Paddy	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Weed management</li> <li>• Water management</li> <li>• Seed production</li> </ul>
		Saidauli	Wheat	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Weed management</li> <li>• Seed production</li> </ul>
		Rajpura	Urd	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Toria	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Mentha	Low yield	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Mango	Low yield	• Poor management
			Poplar	Low growth	• Non adoption of scientific planting methods and plant protection measures
			Cattle	Low yield	<ul style="list-style-type: none"> <li>• Green fodder production</li> <li>• Supplementation of mineral mixture and salt in feed</li> <li>• Management and balanced feeding of farm animals</li> <li>• Control of Animal Disease and abdominal worms</li> </ul>
			Buffalo	Low yield	<ul style="list-style-type: none"> <li>• Green fodder production</li> <li>• Supplementation of mineral mixture and salt in feed</li> <li>• Management and balanced feeding of farm animals</li> <li>• Control of Animal Disease and abdominal worms</li> </ul>
Milak	Milak	Loha Patti Bhagirath	Paddy	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Weed management</li> <li>• Water management</li> </ul>
			Wheat	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Weed management</li> </ul>

			Urd	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Toria	Low yield	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Mentha	Low yield	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> <li>• Replacement of variety</li> </ul>
			Mango	Low yield	<ul style="list-style-type: none"> <li>• Poor management</li> </ul>
			Poplar	Low growth	<ul style="list-style-type: none"> <li>• Non adoption of scientific planting methods and plant protection measures</li> </ul>
			Cattle	Low yield	<ul style="list-style-type: none"> <li>• Green fodder production</li> <li>• Supplementation of mineral mixture and salt in feed</li> <li>• Management and balanced feeding of farm animals</li> <li>• Control of Animal Disease and abdominal worms</li> </ul>
			Buffalo	Low yield	<ul style="list-style-type: none"> <li>• Green fodder production</li> <li>• Supplementation of mineral mixture and salt in feed</li> <li>• Management and balanced feeding of farm animals</li> <li>• Control of Animal Disease and abdominal worms</li> </ul>

## 2.8 Priority thrust areas

S. No	Thrust area
1.	Integrated nutrient management
2.	Crop management
3.	Varietal replacement
4.	Aromatic and Medicinal crop
5.	Vegetable production
6.	Orchard Management
7.	Water management
8.	Seed production of major crops
9.	Mushroom production
10.	Bee keeping
11.	Integrated pest management
12.	Management and balanced feeding of farm animals
13.	Green fodder production
14.	Supplementation of mineral mixture and salt in feed
15.	Control of Animal Disease and abdominal worms
16.	Availability of quality fish seed for stocking
17.	Balanced nutritional feed in fish culture.
18.	Disease management in fish farming
19.	Balanced diet and nutrition management in human being
20.	Popularizing handicraft
21.	Drudgery reduction
22.	Value addition to food products
23.	Lack of Poplar clones and Eucalyptus specie

## 5. TECHNICAL PROGRAMME

### 3 A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
12	70	54.4	205

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
140	2385	461	4965

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
500	2000	01	1200	1200

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
-	20000	-	-

### 3. B. Abstract of interventions to be undertaken

S.No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1.	Use of old variety	Mustard	Low yield	- Use of newly released HYV	-	Identification and Characteristic of Newly release variety	Identification and Characteristic of Newly release variety	Field day	Seed
2.	No use of HYV timely in late sown condition	Wheat	Low yield	Evaluation of new wheat varieties under late sown condition	-	- Identification and Characteristic of HVY - Weed control techniques	Identification and Characteristic	Field day and Gosthi	Seed, and weedicide
3.	Incidence of insect ,pest , diseases , weeds and non adoption of recommended control measures as well as IPM	Paddy	Low yield	-	Use of pheromones trapes, trichoderma and pseudomonas	- IPM in Paddy Management of stem borer and BLB in paddy	IPM in Paddy	Field day and Gosthi	Pheromones trapes , trichoderma and pseudomonas
4.	No use of New variety	Paddy	Low yield	-	Use of new variety	- Weed control - Use of improve varieties	Use of improve varieties	Field day and Gosthi	Seed and Weedicide
5.	IDM	Field pea	Low yield	Biological management of root rot of field pea	-	-	-	Field day	Trichoderma and pseudomonas
6.	Use of old variety	Urd	Low yield	-	- Use of HYV	- Cultivation of Urd	-	Field day	HYV seed , Fertilizer
7.	No use of Dewormer and liver tonic	Buffalo calf	High mortality rates in buffalo calf	-	- Control of mortality of buffalo calf through use of wormicide and liver tonic	- Disease management	-	-	Dewormer and liver tonic

8.	Imbalance feeding and under nutrition of animals.	Buffalo	post calving anoestrous	Evaluation of clinical and non-clinical treatment for post calving anoestrous	-	Disease management	-	-	Mineral mixture, Vetmate inj.
9.	Imbalance feeding and under nutrition of animals	Buffalo	Infertility and low milk yield	Assessment UMMB supplementation in buffalo		- Disease management - Dairying	-	-	UMMB
10.	Low nutrient in fodder straw	Urea treatment of wheat straw	Low milk yield due to imbalance nutrient	-	Feeding of urea treated straw in buffalo	-	-	Goshti	Urea
11.	Malnutrition	Nutritional garden	Malnutrition	Enhancing household food security through nutritional garden		-	Importance of nutritional garden		Seeds Sapling etc.
12.	Malnutrition	Nutritional garden	Malnutrition	-	Enhancing household food security through nutritional garden	-	Importance of nutritional garden		Seeds Sapling etc.
13.	Use of local variety	Garden pea	Low yield	Screening of improved variety of vegetable pea	-	-	-	Field day and Goshti	Seed

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	TOTAL
Varietal Evaluation	02	-	-	01	01	-	-	-	04
Value addition						01			01
Integrated Pest Management	01	-	-		-	-	-		01
Integrated Disease Management	01	-	-	-	01	-	-	-	02
Small Scale income generating enterprises	-	-	-	-	-	-	-	01	01
<b>TOTAL</b>	<b>04</b>	<b>-</b>	<b>-</b>	<b>01</b>	<b>02</b>	<b>01</b>	<b>-</b>	<b>01</b>	<b>09</b>

#### A.2. Abstract on the number of technologies to be refined in respect of crops: -

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Nutrition Management	01							01
Disease Management	01	-	-	-	-	-	01	02
<b>TOTAL</b>	<b>02</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>01</b>	<b>03</b>

#### A.4. Abstract on the number of technologies refined in respect of livestock / enterprises



**B. Details of On Farm Trial (Based on soil test analysis):**

**Crop Production**

**OFT-1**

<b>Particulars :</b>	<b>Contents</b>
<b>1.Title :</b>	<b>Evaluation of high yielding and diseases resistant Basmati varieties</b>
<b>2.Problem diagnosed :</b>	Heavy Incidence of disease
<b>3.Micro farming situateion :</b>	Irrigated
<b>4.Details of technology identified for solution :</b>	T1- Pusa Basmati -1509 T2- Pusa Basmati -1692/1885/1886
<b>5.No. of farmers :</b>	05
<b>6.Replications :</b>	05
<b>7.Critical inputs :</b>	Seed
<b>8.Production system :</b>	Rice-Wheat
<b>9.Source of technology :</b>	IARI, New Delhi
<b>10.Total Cost (Rs.) :</b>	5000/-
<b>11.Observation to be recorded :</b>	Incidence of disease, Yield (q/ha), B:C ratio
<b>12.Reaction of the farmers :</b>	Acceptability

**OFT-2**

<b>Particulars :</b>	<b>Contents</b>
<b>1.Title :</b>	<b>Evaluation of high yielding and Timely sown wheat varieties</b>
<b>2.Problem diagnosed :</b>	Low yield
<b>3.Micro farming situation:</b>	Irrigated
<b>4.Details of technology identified for solution :</b>	T1- HD 2967 T2- DBW -303
<b>5.No. of farmers :</b>	05
<b>6.Replications :</b>	05
<b>7.Critical inputs :</b>	Seed
<b>8.Production system :</b>	Rice-Wheat
<b>9.Source of technology :</b>	IWBR
<b>10.Total Cost (Rs.) :</b>	5000/-
<b>11.Observation to be recorded :</b>	Yield (q/ha), B:C ratio
<b>12.Reaction of the farmers :</b>	Acceptability

**OFT-3**

<b>Particulars</b>	<b>Contents</b>
<b>1.Title :</b>	<b>Evaluation of high yielding and late sown wheat varieties</b>
<b>2.Problem diagnosed :</b>	Low yield
<b>3.Micro farming situation :</b>	Irrigated
<b>4.Details of technology identified for solution :</b>	T1- PBW-550 T2- HD-3298/ 752/757

<b>5.No. of farmers :</b>	05
<b>6.Replications :</b>	05
<b>7.Critical inputs :</b>	Seed
<b>8.Production system :</b>	Rice-Wheat
<b>9.Source of technology :</b>	PAU & IARI
<b>10.Total Cost (Rs.) :</b>	5000/-
<b>11.Observation to be recorded :</b>	Incidence of disease, Lodging, Yield (q/ha), C:B ratio
<b>12.Reaction of the farmers :</b>	Acceptability

### **Livestock Production and Management:**

#### **OFT: 4**

1. **Crop/Enterprise:** Buffalo
2. **Title of on-farm trial:** Effect of mineral mixture and vetmate on post calving anoestrous in buffalo
3. **Problem diagnosed:** No supplementation of mineral mixture feed
4. **Farming situation:** - Mixed farming
5. **Production system and thematic area:** Mixed farming and disease management
6. **Farmers' Practices:** Conventional method (use of choker and common salt)
7. **Details of technologies selected for assessment/refinement-**
  - i. **T<sub>1</sub>:** Farmers Practice – use of choker and common salt
  - ii. **T<sub>2</sub>:** Mineral mixture Supplementation @ 50 g/Day/Animal up to 60 days + Inj Vetmate (Gonadotrophic hormone) 2 ml (72 -96 hrs. Before AI) after 45days of calving
8. **No. of farmers: 10** (one animal in each farmer)
9. **Critical input:**
  - c. Mineral Mixture 2kg/animal =15kg x Rs 150 =2250.00
  - d. Inj Vetmate 2 ml = 10ml x Rs 200/2 ml = 2000.00
10. **Total cost of OFT: Rs.4250.00**
11. **Source of technology:** IVRI Bareilly
12. **Performance indicators**
  - I. Technical**
    - Induction of estrus
    - No. of animal conceive / pregnant
  - III. Social:**
    - b. Farmer's reactions

#### **OFT: 5**

1. **Crop/Enterprise:** Buffalo
2. **Title of on-farm trial:** Effect of Urea Molasses Mineral Block supplementation on Milk Production and Reproductive Performance in Lactating Buffalo.

3. **Problem diagnosed:** Low Milk Yield and Infertility due to imbalance nutrients.
4. **Farming situation:** - Mixed farming
5. **Production system and thematic area:** Mixed farming and feed and fodder management
6. **Farmers' Practices:** conventional method (Use of choker and common salt)
7. **Details of technologies selected for assessment/refinement:**
  - i. T1: Farmers Practice – Use of choker and common salt
  - ii. T2: UMMB supplementation (Licking)@ 300 /day/animal for 120 days
8. **No. of farmers:** 05 (one animal in each farmer)
9. **Critical input:** UMMB 40 kg/animal for 120 days= 40x05 =200 kg  
 = 100 Block (2 kg each block) = 100x65 Rs/Block =6500.00 Rs
10. **Source of technology:** IVRI Bareilly
11. **Total cost of OFT:** Rs 6500.00

## 2 Performance indicators

### III. Technical

- Estrus cycle (days)
- Conception rate %
- Concentrate saving (kg & Rs.)

### IV. Economic:

- Milk yield (kg/lit)
- Cost : Benefit ratio

### IV. Social:

- Farmer's reactions

## Home Science :

### OFT: 6 Seasonal – (Kharif and Rabi)

1. **Crop/Enterprise:** Milk
2. **Title of on-farm trial:** Assessment of value addition of defatted milk.
3. **Problem diagnosed:** Low income of farm women due to no further value addition of defatted milk
4. **Production system and thematic area:** Value addition
5. **Farmers' Practices:** Growing some leafy vegetables and cucurbits
6. **Details of technologies selected for assessment/refinement:**
  - T<sub>1</sub>: Farmers Practice – No paneer making only ghee making (One process product only)
  - T<sub>2</sub>: Paneer making with mint (leaves and coriander leaves) from defatted milk apart from ghee making
7. **Source of technology:** NDRI Karnal
8. **No. of farmers:** 05
9. **Critical input:** Milk 1kg/farmer
  - Lemon, mint and coriander leaves
  - Cost of each intervention 200.00
  - Total cost of OFT : 200 x5 =1000.00

## **10. Performance indicators**

### **I. Technical**

IV. Return/ additional income from value addition

### **II. Economics**

II. B:C ratio

### **III. Social:**

a. Farmer's reactions

## **OFT: 7 Seasonal Fruit – (Kharif and Rabi)**

**1. Crop/Enterprise:** Anola

**2. Title of on-farm trial:** Assessment of role of value addition of Anola in income generation

**3. Problem diagnosed:** Low income of farm women due excess production of Anola

**4. Production system and thematic area:** Value addition

**5. Farmers' Practices:** No value addition of Anola

**6. Details of technologies selected for assessment/refinement:**

T<sub>1</sub>: Farmers Practice – No value addition of Anola

T<sub>2</sub>: Income generation through value addition of Anola

**7. Source of technology:** JNKVV Jabalpur

**8. No. of farmers:** 05

**9. Critical input:** Anola 2kg/farmer

Sugar 1.5 kg/farmers

Salt and spices Rs.100/Farmer

Cost of each intervention 300.00

Total cost of OFT : 300 x5 =1500.00

## **10. Performance indicators**

### **I. Technical**

V. Return/ additional income from value addition

### **II. Economics**

III. B:C ratio

### **III. Social:**

a. Farmer's reactions

## **Plant Protection:**

### **OFT: 8**

**1. Crop/Enterprise:** Paddy

**2. Title of on-farm trial:** yield loss in paddy crop due to stem borer

**3. Problem diagnosed :** Imbalance and improper use of plant protection measures

**4. Farming situation:** Irrigated

**5. Production system and thematic area:** Rice Wheat production system and Integrated Pest Management

**6. Farmers' Practice:** Use of non target pesticides, conventional method

**7. Details of technologies selected for assessment/refinement**

i. T<sub>1</sub> – Farmers practice – Use of phorate 10G @ 25 kg/ha.

ii. T<sub>2</sub> – Use of Cartap hydrochloride 4G@ 20kg/ha.

**Plot size :** 0.4 ha/ farmers

**8. Source of technology:** SVPUAT Meerut

**9. No. of farmers:** 05

**10. Critical input:**

- Cartap 40kg @Rs. 110 = 4400.00 Rs.

**Total cost of inputs = Rs. 4400.00**

**11. Performance indicators**

**I. Technical** a. Insect infestation b. Yield (q/ha)

**II. Economic:** a. C:B ratio

**VII. Social:** a. Farmer's reactions

**OFT: 9**

**1. Crop/Enterprise :** Vegetable Pea

**2. Title of on-farm trial :** Biological control of root rot disease in vegetable pea

**3. Problem diagnosed :** Yield loss in Vegetable Pea due to root rot disease

**4. Farming situation :** Irrigated

**5. Production system and thematic area:** Rice Wheat production system and IDM

**6. Farmers' Practices:** Use of carbofuran 3 G @25 kg/ha

**7. Details of technologies selected for assessment/refinement**

**8. T<sub>1</sub> – Farmers practice –** Use of carbofuran 3 G @25 kg/ha

T<sub>2</sub> –Soil application of Trichoderma powder @ 5 kg/ha + Pseudomonas powder @ 5 kg/ha mixed

with FYM

**9. Plot size -** 0.4 ha / Farmer

**10. Source of technology:** SVPUAT Meerut

**11. No. of farmers:** 05

**12. Critical input:**

- Trichoderma powder 5.0 kg @ Rs.250.00/kg = Rs 1250.00

- Pseudomonas powder 5.0 kg @ Rs.250.00/kg = Rs 1250.0

**Total cost of inputs = Rs. 2500.00**

**13. Performance indicators**

**I. Technical** a. Insect infestation b. Yield (q/ha)

**II. Economic:** a. C:B ratio

**IV. Social:** a. Farmer's reactions

## Agro Forestry :

### **OFT 10 :-**

1) **Crop/Enterprise** - Poplar

1) **Title of on-farm trial** - Proper selection of clones for poplar

2) **Problem diagnosed** - Lower productivity and profitability in Poplar cultivation due to improper selection of clones

3) **Farming situation** - Irrigated

4) **Production system and thematic area** - Rice Wheat Production System INM

5) **Farmers' Practices** -

T<sub>1</sub> – Farmers practice G-48 clones

T<sub>2</sub>. Use of S7C8 clones

6) **Details of technologies selected for assessment/refinement** -

I. S7C8

7) **Source of technology** - SVPUAT Meerut

8) **No. of farmers** - 05

9) **Critical input** - Clones of S7C8 = 2000.00

**10) Performance indicators-**

1. Technical a. No. of tillers / sq m

b. Grain yield q/ha.

ii Economic a. Cost of input (Treatment wise)/ha

b. Additional return/ha.

c. C:B Ratio

## Fisheries

### **OFT: 11**

1. **Crop/Enterprise:** Fish

2. **Title of on-farm trial:** Use of mineral mixture in supplementary in fish culture pond.

3. **Problem diagnosed:** No use of lime to maintain hygienic condition of pond.

4. **Production system and thematic area:** Mixed farming and disease management

5. **Farmers' Practices:** Conventional method (no use of lime)

6. **Details of technologies selected for assessment/refinement-**

i. T<sub>1</sub>: Farmers Practice – no use of mineral mixture

ii. T<sub>2</sub>: Use of mineral mixture @ 1kg/ Quintal

7. **No. of farmers:** 10 (area 1.0 acre/farmer)

8. **Source of technology:** G.B.P.U. of Ag. & Tech., Pantnagar

9. **Critical input:**

Mineral mixture @ 5 kg/ trail

05x10 x Rs 150= Rs. 7500.00

**Total cost of OFT: Rs.7500.00**

**10. Performance indicators**

**I. Technical**

a. disease infestation

b. Yield (q/ha)

**II. Economic:** a. Additional return b. C:B ratio

**III Social :** Farmer's reactions

**Horticulture**

**OFT: 12**

<b>1.Crop/ Enterprises :</b>	Tomato
<b>2.Title of OFT:</b>	Assessment of Tomato varieties (determinate)
<b>3. Problem diagnosed :</b>	Low yield of fruit due to small size.
<b>4.Farming Situation:</b>	Irrigated
<b>5.Production System and thematic area:</b>	Kharif vegetable – Mustard/Wheat- Rabi vegetable Varietal assessment
<b>6.Farmers Practice :</b>	Local variety
<b>7.Details of technology selected for assessment/ refinement :</b>	T <sup>1</sup> : Farmers Practice T <sup>2</sup> : ArkaRakshak
<b>8.Source of technology</b>	IIHR, Bangalore
<b>9.No. of Farmers</b>	05 (Total area= 0.75 ha)
<b>10.Critical Inputs</b>	Seed
<b>11.Performance indicator</b>	
<b>d) Technical</b>	1. Days to first flower 2. Days to first picking 3. No. of fruits per plant 4. Average fruit weight (g) (avg. of 10 fruits) 5. Fruit weight per plant (kg) 6. Fruit yield (q/ha) 7. Self-life of fruits (days)
<b>e) Economic</b>	Cost of cultivation, gross return, net return & B:C ratio
<b>f) Social</b>	Adoptability of technology and compatibility in existing farming systems.

### 3.2 Frontline Demonstrations

Details of FLDs to be organized (Based on soil test analysis) –

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demon	Parameters identified
<b>Crop Production</b>									
1	Paddy	Pusa -1509	Weed management	Weed control in paddy through chemical method	Bispyribac sodium @ 100 ml./acre	Kharif 2020	8.0	20	<ul style="list-style-type: none"> <li>▪ No. of weeds per sqm</li> <li>▪ Grain yield (q/ha)</li> <li>▪ Economics</li> </ul>
2	Paddy	Pusa Basmati-1637/1718	Varietal demon.	To demonstrate the yield potential of Scented rice variety	Improved seed (@ 20 kg / ha.	Kharif 2020	5.0	25	<ul style="list-style-type: none"> <li>▪ Lodging</li> <li>▪ Disease incidence</li> <li>▪ Grain yield (q/ha)</li> <li>▪ Economics</li> </ul>
3	Late Sown Wheat	DBW-173	Varietal demon.	To demonstrate the yield potential of late sown wheat	Improved seed @ 120 kg / ha.	Rabi 2020-21	5.0	25	<ul style="list-style-type: none"> <li>▪ Lodging</li> <li>▪ Disease incidence</li> <li>▪ Grain yield (q/ha)</li> <li>▪ Economics</li> </ul>
4	Sugarcane	Co-0238	ICM	Weed management	Halo Sulfuron methyl @ 90gm/ha	Spring 2020	8.0	20	<ul style="list-style-type: none"> <li>▪ Cane Yield (q/ha)</li> <li>▪ Economics</li> </ul>
<b>Plant Protection</b>									
5	Paddy	Pusa 1509 or As per Availability	IPM	Management of brown plant hopper through chemical	Foliar spray of Buprofezin 25 % EC @ 750 ml/ha	Kharif -2023	4.0	10	<ul style="list-style-type: none"> <li>-Yield</li> <li>- severity of disease</li> <li>-C:B ratio</li> </ul>
6	Potato	Chipsona-1 or As per Availability	IDM	Management of late blight disease through chemical	Foliar spray of cymoxanil 8 % and Mancozeb 64% (curzet) @1.5 kg/ha	Rabi 2023-24	4.0	10	<ul style="list-style-type: none"> <li>-Yield</li> <li>- severity of disease</li> <li>-C:B ratio</li> </ul>
<b>Agro Forestry</b>									
7	Eucalyptus	Hybrid	IFS	Introduction of suitable <i>Eucalyptus</i> species	Seed	Zaid 2024	4.0	20	Yield/Profit Diameter of tree per year
8	Poplar	S7C8	IFS	Balanced & proper use of fertilizers	Fertilizer	Rabi 2023-24	4.0	20	Yield/Profit Diameter of tree per year



<b>Livestock Enterprises</b>									
9	Barseem	Variety:BL-10 or BL-42	Feed and fodder	Use of Improved Variety seed @ 30 kg/ha	06 kg Seed	Rabi 2023-22	0.2	05	-Yield q/ha
10	<b>Fisheries</b>	IMC	Feed management	Urea 30 kg / ha SSP 40kg/ ha	Fertilizers	Rabi 2023-22	10.00	10	Yield q/ha
11	<b>Home Sci.</b> Seasonal Vegetable	-	House hold food security	Nutritional garden	Seeds	Khartif-22, Rabi 2023-24	0.2	20	- Net income  -Availability / person
12	Mango		Post harvest technology	Value addition	Preservative, salt, spice, mango	Kharif -22	-	05	-Keeping quality  - net income
<b>Horticulture</b>									
13	Onion	NHRDF RED-4	Varietal	Demonstration of improved variety	Seed	Kharif-2023	0.5	05	Yield B:C Ratio Yield increase (%)
14	Tomato	ArkaRaks hak	Micro-nutrients Mngt.	Foliar application of micronutrients	Micronutrients	Kharif-2023	0.5	05	Yield B:C Ratio Yield increase (%)
15	Veg. Pea	Azad P-3	Weed management	Pre-emergence application of pendimethalin supplemented with one hand weeding	Pendimethalin	Rabi- 2023	0.5	05	Yield B:C Ratio Yield increase (%) Weed Spectrum
16	Radish	PusaChet ki	Varietal	Demonstration of improved variety	Seed	Kharif-2023	0.5	05	Yield B:C Ratio Yield increase (%)

### Sponsored Demonstration

Sl. No.	Crop	Area (ha)	No. of farmers

### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days			
2	Farmers Training	06		120
3	Media coverage			
4	Training for extension functionaries			

### C. Details of FLD on Enterprises

#### (i) Farm Implements

#### (ii) Livestock Enterprises

Enterprise	Breed	No. of farmers/ Area	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / Indicators
Livestock	Buffalo-calf	30	60	1. Dewormer (Albendazole+Ivermectin) syrup (30 ml)- 60 vial 2. Livol powder 100 gm:( 60 pkt)	Mortality rate
Livestock (Feeding of Urea treated Wheat Straw)	Buffalo	05	10	Urea 40kg for 10 qt. paddy/ Wheat straw	- Concentrate saving (kg & Rs) - Milk yield

### 3.3 Training (Including the sponsored and FLD training programmes):

#### A) On Campus)

Thematic area	No. of courses	Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Resource Conservation Technologies	01	16	0	16	04	0	04	20
Cropping Systems	01	16	0	16	04	0	04	20
Crop Diversification	01	16	0	16	04	0	04	20
Water management	01	16	0	16	04	0	04	20
Seed production	02	32	0	32	08	0	08	40
Nursery management	01	16	0	16	04	0	04	20
<b>Total</b>	<b>7</b>	<b>112</b>	<b>0</b>	<b>112</b>	<b>28</b>	<b>0</b>	<b>28</b>	<b>140</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Nursery raising	1	15	0	15	05	0	05	20
<b>b) Fruits</b>								
Management of young plants/orchards	02	30	0	30	10	0	10	40
<b>Total</b>	<b>03</b>	<b>45</b>	<b>0</b>	<b>45</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>60</b>
<b>III Livestock Production and Management</b>								
Dairy Management	01	15	0	15	05	0	05	20
Disease Management	04	60	0	60	20	0	20	80
Feed Management	01	15	0	15	05	0	05	20
<b>Total</b>	<b>06</b>	<b>90</b>	<b>0</b>	<b>90</b>	<b>30</b>	<b>0</b>	<b>30</b>	<b>120</b>
<b>IV Home Science/Women empowerment</b>								
Design and development of low/minimum cost diet	01	0	15	15	0	05	05	20
Value addition	03	0	45	45	0	15	15	60
Rural Crafts	01	0	15	15	0	05	05	20
Others	01	0	15	15	0	05	05	20
<b>Total</b>	<b>06</b>	<b>0</b>	<b>90</b>	<b>90</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>0</b>
<b>V Plant Protection</b>								
Integrated Pest Management	02	30	0	30	10	0	10	40
Integrated Disease Management	02	30	0	30	10	0	10	40
<b>Total</b>	<b>04</b>	<b>60</b>	<b>0</b>	<b>60</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>80</b>

<b>VI Fisheries</b>								
Integrated fish farming	01	15	02	17	02	01	03	20
Carp breeding and hatchery management	01	15	02	17	02	01	03	20
Carp fry and fingerling rearing	01	15	02	17	02	01	03	20
Composite fish culture	01	15	02	17	02	01	03	20
<b>Total</b>	<b>04</b>	<b>60</b>	<b>08</b>	<b>68</b>	<b>08</b>	<b>04</b>	<b>12</b>	<b>120</b>
<b>VII Agro-forestry</b>								
Production technologies	3	44	4	48	10	2	12	60
Nursery management	1	13	1	14	5	1	6	20
Integrated Farming Systems	1	13	2	15	5	0	5	20
<b>Total</b>	<b>05</b>	<b>70</b>	<b>7</b>	<b>77</b>	<b>20</b>	<b>3</b>	<b>23</b>	<b>90</b>
<b>TOTAL</b>	<b>35</b>	<b>437</b>	<b>105</b>	<b>542</b>	<b>116</b>	<b>37</b>	<b>153</b>	<b>695</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08	0	08	02	0	02	10
Seed production	01	8	0	8	02	0	2	10
Production of organic inputs	01	8	0	8	02	0	2	10
Vermi-culture	01	08	0	08	02	0	02	10
Nursery Management of Horticulture crops	01	08	0	08	02	0	02	10
Sheep and goat rearing	01	08	0	08	02	0	02	10
Poultry production	01	08	0	08	02	0	02	10
Composite fish culture	01	08	0	08	02	0	02	10
Rural Crafts	01	0	08	08	0	02	02	10
<b>TOTAL</b>	<b>09</b>							
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	3	24	0	24	6	0	6	30
Integrated Pest Management	4	32	0	32	8	0	8	40
Protected cultivation technology	08	64	06	70	08	02	10	80
Management in farm animals	4	32	0	32	8	0	8	40
Livestock feed and fodder production	1	8	0	8	2	0	2	10
Household food security	2	0	16	16	0	4	4	20
Low cost and nutrient efficient diet designing	2	0	16	16	0	4	4	20
Production and use of organic inputs	1	8	0	8	2	0	2	10
Any other (Pl. Specify)	7	40	22	62	04	04	08	70
<b>Total</b>	<b>29</b>	<b>184</b>	<b>56</b>	<b>240</b>	<b>36</b>	<b>14</b>	<b>50</b>	<b>290</b>
<b>G. Total</b>								

#### D) OFF Campus

Thematic area	No. of courses	Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
Weed Management	2	32	0	32	08	0	08	40
Resource Conservation Technologies	3	48	0	48	12	0	12	60
Cropping Systems	4	64	0	64	16	0	16	80
Crop Diversification	3	48	0	48	12	0	12	60
Integrated Crop Management	2	32	0	32	08	0	08	40
Production of organic inputs	1	16	0	16	04	0	04	20
<b>Total</b>	<b>15</b>	<b>240</b>	<b>0</b>	<b>240</b>	<b>60</b>	<b>0</b>	<b>60</b>	<b>300</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Protective cultivation	03	45	0	45	15	0	15	60
<b>b) Fruits</b>								
Training and Pruning	02	30	0	30	10	0	10	40
Cultivation of Fruit	02	30	0	30	10	0	10	40
<b>Total</b>	<b>07</b>	<b>105</b>	<b>0</b>	<b>105</b>	<b>35</b>	<b>0</b>	<b>35</b>	<b>140</b>
<b>III Livestock Production and Management</b>								
Dairy Management	02	30	0	30	10	0	10	40
Disease Management	03	45	0	45	15	0	15	60
Feed Management	03	45	0	45	15	0	15	60
Production of quality animal products	01	15	0	15	05	0	05	20
<b>Total</b>	<b>09</b>	<b>135</b>	<b>0</b>	<b>135</b>	<b>45</b>	<b>0</b>	<b>45</b>	<b>180</b>
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	0	15	15	0	05	05	20
Designing and development for high nutrient	01	0	15	15	0	05	05	20

efficiency diet								
Storage loss minimization techniques	02	0	30	30	0	10	10	40
Value addition	01	0	15	15	0	05	05	20
Location specific drudgery reduction technologies	02	0	30	30	0	10	10	40
Women and child care	02	0	30	30	0	10	10	40
<b>Total</b>	<b>9</b>	<b>0</b>	<b>135</b>	<b>135</b>	<b>0</b>	<b>45</b>	<b>45</b>	<b>180</b>
<b>V Plant Protection</b>								
Integrated Pest Management	05	75	0	75	25	0	25	100
Integrated Disease Management	02	30	0	30	10	0	10	40
<b>Total</b>	<b>07</b>	<b>105</b>	<b>0</b>	<b>105</b>	<b>35</b>	<b>0</b>	<b>35</b>	<b>140</b>
<b>VI Fisheries</b>								
Integrated fish farming	01	15	02	17	02	01	03	20
Carp breeding and hatchery management	02	30	04	34	04	02	06	40
Composite fish culture	02	30	04	34	04	02	06	40
<b>Total</b>	<b>05</b>	<b>75</b>	<b>10</b>	<b>85</b>	<b>10</b>	<b>5</b>	<b>15</b>	<b>100</b>
<b>VII Agro-forestry</b>								
Production technologies	3	36	9	45	12	3	15	60
Intercropping	2	33	01	34	5	1	6	40
Identification of Clones	2	32	3	35	4	1	5	20
Training & Pruning	1	16	0	16	04	0	04	20
Fertilizers Management	2	33	2	35	4	1	5	40
Integrated Farming Systems	2	32	2	34	5	1	6	40
<b>Total</b>	<b>12</b>	<b>182</b>	<b>17</b>	<b>199</b>	<b>34</b>	<b>7</b>	<b>41</b>	<b>240</b>
<b>TOTAL</b>	<b>64</b>	<b>842</b>	<b>162</b>	<b>1004</b>	<b>219</b>	<b>57</b>	<b>276</b>	<b>1280</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	2	32	0	32	8	0	8	40
Resource Conservation Technologies	4	64	0	64	16	0	16	80
Cropping Systems	5	80	0	80	20	0	20	100
Crop Diversification	4	64	0	64	16	0	16	80
Water management	1	16	0	16	4	0	4	20
Seed production	2	32	0	32	8	0	8	40
Nursery management	1	16	0	16	4	0	4	20
Integrated Crop Management	2	32	0	32	8	0	8	40
Production of organic inputs	1	16	0	16	4	0	4	20
<b>Total</b>	<b>22</b>	<b>352</b>	<b>0</b>	<b>352</b>	<b>88</b>	<b>0</b>	<b>88</b>	<b>440</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Off-season vegetables	01	15	0	15	05	0	05	20
Protective cultivation (Green Houses, Shade Net etc.)	03	45	0	45	15	0	15	60
<b>b) Fruits</b>								
Training and Pruning	02	30	0	30	10	0	10	40
Cultivation of Fruit	02	30	0	30	10	0	10	40
Management of young plants/orchards	02	30	0	30	10	0	10	40
<b>Total</b>	<b>10</b>	<b>150</b>	<b>0</b>	<b>150</b>	<b>50</b>	<b>0</b>	<b>50</b>	<b>200</b>
<b>III Livestock Production and Management</b>								
Dairy Management	03	45	0	45	15	0	15	60
Disease Management	07	105	0	105	35	0	35	140
Feed management	04	60	0	60	20	0	20	80
Production of quality animal products	01	15	0	15	05	0	05	20
<b>Total</b>	<b>15</b>	<b>225</b>	<b>0</b>	<b>225</b>	<b>75</b>	<b>0</b>	<b>75</b>	<b>300</b>
<b>IV Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1	0	15	15	0	5	5	20
Design and development of low/minimum cost diet	1	0	15	15	0	5	5	20
Designing and development for high nutrient efficiency diet	1	0	15	15	0	5	5	20
Storage loss minimization techniques	2	0	30	30	0	10	10	40
Value addition	4	0	60	60	0	20	20	80
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	2	0	30	30	0	10	10	40

Rural Crafts	1	0	15	15	0	5	5	20
Women and child care	2	0	30	30	0	10	10	40
Other (Specify)	1	0	15	15	0	5	5	20
<b>Total</b>	<b>15</b>	<b>0</b>	<b>225</b>	<b>225</b>	<b>0</b>	<b>75</b>	<b>75</b>	<b>300</b>
<b>V Plant Protection</b>								
Integrated Pest Management	7	105	0	105	35	0	35	140
Integrated Disease Management	4	60	0	60	20	0	20	80
<b>Total</b>	<b>11</b>	<b>165</b>	<b>0</b>	<b>165</b>	<b>55</b>	<b>0</b>	<b>55</b>	<b>220</b>
<b>VI Fisheries</b>								
Integrated fish farming	02	30	04	34	04	02	06	40
Carp breeding and hatchery management	03	45	06	51	06	03	09	60
Carp fry and fingerling rearing	01	15	02	17	02	01	03	20
Composite fish culture	03	45	06	51	06	03	09	60
<b>Total</b>	<b>09</b>	<b>135</b>	<b>18</b>	<b>153</b>	<b>18</b>	<b>9</b>	<b>27</b>	<b>180</b>
<b>VII Agro-forestry</b>								
Production technologies	5	61	13	74	21	5	26	100
Nursery management	3	53	1	54	5	1	6	60
Training & pruning	2	24	6	30	8	2	10	40
Fertilizer Management	3	53	2	55	4	1	5	60
Integrated Farming Systems	2	26	4	30	8	2	10	40
Intercropping	2	34	1	35	4	1	5	40
<b>Total</b>	<b>17</b>	<b>252</b>	<b>24</b>	<b>276</b>	<b>49</b>	<b>10</b>	<b>59</b>	<b>335</b>
<b>TOTAL</b>	<b>99</b>	<b>1279</b>	<b>267</b>	<b>1546</b>	<b>335</b>	<b>94</b>	<b>429</b>	<b>1975</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	08	0	08	02	0	02	10
Seed production	01	08	0	08	02	0	02	10
Production of organic inputs	01	8	0	8	02	0	2	10
Vermi-culture	01	8	0	8	02	0	2	10
Nursery Management of Horticulture crops	01	8	0	8	02	0	2	10
Sheep and goat rearing	01	08	0	08	02	0	02	10
Poultry production	01	08	0	08	02	0	02	10
Composite fish culture	01	08	0	08	02	0	02	10
Rural Crafts	01	0	8	08	0	02	02	10
<b>TOTAL</b>	<b>09</b>	<b>64</b>	<b>8</b>	<b>72</b>	<b>16</b>	<b>2</b>	<b>18</b>	<b>90</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	3	24	0	24	6	0	6	30
Integrated Pest Management	4	32	0	32	8	0	8	40
Protected cultivation technology	8	64	6	70	8	2	08	80
Management in farm animals	4	32	0	32	8	0	8	40
Livestock feed and fodder production	1	8	0	8	2	0	2	10
Household food security	2	0	16	16	0	4	4	20
Low cost and nutrient efficient diet designing	2	0	16	16	0	4	4	20
Production and use of organic inputs	1	8	0	8	2	0	2	10
Any other (Pl. Specify)	7	40	22	62	04	04	08	70
<b>Total</b>	<b>32</b>	<b>208</b>	<b>60</b>	<b>268</b>	<b>38</b>	<b>14</b>	<b>50</b>	<b>320</b>
<b>G. TOTAL</b>	<b>140</b>	<b>1551</b>	<b>335</b>	<b>1886</b>	<b>389</b>	<b>110</b>	<b>497</b>	<b>2385</b>

*Details of training programmes attached in Annexure -I*

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	340	150	490	10	0	10	350	150	500
Kisan Mela	01	250	50	300	35	05	40	285	55	340
Kisan Ghosthi	02	500	100	600	125	25	150	625	125	750
Exhibition	02	500	100	600	125	25	150	625	125	750
Newspaper coverage	25									
Radio talks	08									
TV talks	08									
Popular articles	18									
Extension Literature	04									
<b>Advisory Services</b>										
Scientific visit to farmers field	180	400	100	500				400	100	500

Farmers visit to KVK	180	350	50	400	45	05	50	395	55	450
Diagnostic visits										
Ex-trainees Sammelan	01	50	10	60				50	10	60
Animal Health Camp	01	40	10	50	10	0	10	50	10	60
Soil test campaigns	06		280	25	305	25	0	305	25	330
Celebration of important days (specify)	02	150	75	225	25		25	225	250	250
Pre Kharif workshop	1	250	50	300				250	50	300
Pre Rabi workshop	1	250	50	300				250	50	300
Any Other (Research papers/ Abstracts)	8									
<b>Total</b>	<b>461</b>	<b>3180</b>	<b>1300</b>	<b>4225</b>	<b>680</b>	<b>85</b>	<b>435</b>	<b>3860</b>	<b>1105</b>	<b>4965</b>

### 3.5 Target for Production and supply of Technological products SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qt.)
<b>CEREALS</b>	Paddy	Pusa-1509 / As per availability	150
	Wheat	PBW-550/ DW-71/As per availability	300
<b>OILSEEDS</b>	Mustard	As per availability	50

### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>			
	Papaya	Pusa Nanha & red lady-786	700
<b>SPICES</b>			
<b>VEGETABLES</b>	As per availability		21500
<b>FOREST SPECIES</b>	As per availability		
<b>ORNAMENTAL CROPS</b>	As per availability		800
		<b>Total</b>	<b>23000</b>

### Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>				
1	Vermicompost			500

### LIVESTOCK: NIL

### 5.6. Literature to be Developed/Published

#### (I) KVK News Letter

Date of start :  
Number of copies to be published :

#### (B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	03
3	News letters	01
4	Training manual all discipline	06
5	Popular article	18
6	Extension literature	12
	<b>Total</b>	<b>42</b>

#### (C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Training/ Demonstration/Extension activities	02

**3.7. Success stories/Case studies identified for development as a case. -**

**3.8 Indicate the specific training need analysis tools/methodology followed for :**

**Practicing Farmers**

- a) RRA
- b) Group discussion
- c)

**Rural Youth**

- a) RRA
- b) Group discussion
- c) SWOT Analysis
- d)

**In-service personnel**

- a) Group discussion
- b)
- c)

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) Problem identified from Matrix
- ii) Field level observations
- iii) SWOT Analysis

**For FLD :**

- xliv) New variety/technology
- xlvi) Poor yield at farmers level

**3.10 Field activities**

- i. Name of villages identified/adopted with block name (from which year) -Milak, Chamrauwa, Shahabad – 2023
- ii. No. of farm families selected per village :50
- iii. No. of survey/PRA conducted : 06
- iv. No. of technologies taken to the adopted villages: 06
- v. Name of the technologies found suitable by the farmers of the adopted villages: Variety, Seed Treatment, Bio pesticide, Soil Testing, Mineral Mixture, Kitchen Garden, Value addition .
- vi. Impact (production, income, employment, area/technological– horizontal/vertical): 60 farmers adopted technology .
- vii. Constraints if any in the continued application of these improved technologies: Recommended varieties, bio pesticide and mineral mixture area specific are timely not available in market.

**3.11. Activities of Soil and Water Testing Laboratory**

**Status of establishment of Lab:**

- 1. **Year of establishment : 2008**
- 2. **List of equipments purchase with amount- No any equipment purchase this year.**

Sl. No	Name of the Equipment	Quantity	Cost (Rs.)
1.	Single pen balance	01	87000.00
2.	Lab. hot air oven	01	14500.00
3.	Refrigerator with stabilizer	01	12000.00
4.	Microscope revolving	01	4600.00
5.	Kjeldal apparatuses digestion appl complete with glass (Jendal)	02	13400.00
6.	Kejeldal apparatuses digestion appl complete with glass (Jendal make)	02	30000.00
7.	Lab willy milly (Grinder)	02	30000.00
8.	Spectrophotometer	01	23252.40
9.	Flame photometer	01	106500.00
10.	PH Meter micro probe hesed	01	33430.00
11.	Hot plate	01	10350.00
12.	Water Distillation	01	8200.00
13.	Physical Balance	01	85000.00
14.	Mechanical Shaker	01	11990.00
15.	Mirida Parikshak Kit With Accessories	01	117525.00
<b>Total</b>		<b>18</b>	<b>587747.40</b>

**13) Targets of samples for analysis:**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	1100			
Water Samples	100			
Plant				
<b>Total</b>	<b>1200</b>			

**4.0 LINKAGES**

**4.1 Functional linkage with different organizations**

Name of the Organization	Nature of Linkage
State Agriculture department	Participation in training and meetings at Division, district, block and village level.
	Participation in Exhibition, Gosthies and Kisan Melas at various levels.
	Visits at Govt. farm for spot technical guidance.
	Participation in soil testing programmes.
Fertilizer Agencies	Participation in training, meetings, gosthies/Kisan diwas, Kisan Melas, soil testing and plantation programmes.
Tractor/ Seed/Pesticide Companies	Participation in training, meetings, gosthies/Kisan diwas, Kisan Melas, soil testing and plantation programmes.
State Animal Husbandry department and BAIF	Participations in Animal Health care programmes.
UPSDC	Seed production programme at instructional farm.
State Horticulture department	Participation in training, meeting, gosthies and field visits.
Deptt. Of Fisheries	Participation as Technical expert in Training/ Gosthi etc.
State Social Forestry department	Participation in Environment day and Gosthies.
NABARD	Participation as resource person in Training/Goshti etc.
Bank's	Training as resource person

**4.2 Details of linkage with ATMA**

a) Is ATMA implemented in your district Yes/No: Yes

S. No.	Programme	Nature of linkage
1	Scientist farmer interaction	Resource Person
2	Kisan Mela and Ghoshti	Resource Person
3	Farmer Field School	Resource Person

**4.3 Give details of programmes under National Horticultural Mission: NA**

S. No.	Programme	Nature of linkage
1	Farmers training/Demonstration	Technical expert

**4.4 Nature of linkage with National Fisheries Development Board: NA**



## 1.0 Utilization of hostel facilities

### Accommodation available:

Months	No. of beds	No. of programmes	Trainee days (days stayed)
JAUNARY TO DECEMBER, 2023	20	50	125

### Convergence with departments :

7.1. Details of the programmes being implemented by your KVK in partnership with other institution: NIL

7.2. Brief achievements of above collaborative programmes: NIL

8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period (2017-18)

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	CFLD-NFSM Project i. Kharif season	50.0(30 U +20 M)	50.0 ha
2	Soil Health Card	74	74
3	Other (please specify) UTFI Programme with IWMI	Recharge of ground water	1 Site developed recharge module
	Total		

### 9 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :

- 1- Variety P.U. 31 is extra short duration so is coincidence with rains flower drop and ultimately low yield and YMV susceptible.
- 2- Dropping of flowers and fruits in bottle guard and sponge guard.

### 10. Feedback of the farmers about the technologies demonstrated and assessed :

1. High Yield Variety –Pusa Masoor was found effective in production and short duration character resulted less over vegetative growth and escape the wilt disease and vigorous growth and more yield.
2. Foliar spray of water soluble fertilizer was found effective in management fertilizer and increase fertilizer efficacy and decrease fertilizer losses .
3. Propiconazole 25 %EC@750ml/ha was found effective in management of sheath blight disease.
4. Soil application of Trichoderma and Pseudomonas powder was found effective in management of root rot disease.
5. High Yield Variety Pusa Snow Ball-2 was found effective in production .
6. Dewormer i.e. albendazol syrup and albendazol bolus is more effective in endo parasite of animals.
7. Mineral mixture is play important role for milk production and anoestrus of animals.

## Training Programme

## i) Farmers &amp; Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
08.05.23	PF	Nursery management in rice	01	16	0	16	4	0	4	20
11.05.23	PF	Production techniques of Export quality basmati rice	01	16	0	16	4	0	4	20
04.09.23	PF	Trench Method in sugarcane	01	16	0	16	4	0	4	20
11.09.23	PF	Role of mechanization in sugarcane crop	01	16	0	16	4	0	4	20
05.10.23	PF	Importance of micro irrigation in sugarcane	01	16	0	16	4	0	4	20
06.10.23	PF	Diversification in autumn sugarcane	01	16	0	16	4	0	4	20
12.10.23	PF	Production techniques of Rabi pulses	01	16	0	16	4	0	4	20
<b>Livestock Production</b>										
16.02.2023	PF/FW	Foot and mouth disease of cattle: Its symptoms and control	01	15	02	17	02	01	03	20
03.03.2023	PF/FW	Prevention of H.S., B.Q. diseases in bovine	01	15	02	17	02	01	03	20
16.06.2023	PF/FW	Role of mineral mixture on animal health and production	01	15	02	17	02	01	03	20
21.07.2023	PF	Reproductive disorders in animals and their management	01	15	02	17	02	01	03	20
11.08.2023	PF/FW	Care and feeding of Cattle & Buffalo calves.	01	15	02	17	02	01	03	20
21.12.2023	PF/FW	Mastitis in milch animals : Its causes & prevention	01	15	02	17	02	01	03	20
<b>Home Science</b>										
11.01.2023	PF	Value addition of Rabi vegetables	01	0	17	17	0	03	03	20
17.02.2023	PF	Preserving of peas for a year for income generation at village level	01	0	17	17	0	03	03	20
23.03.2023	PF	Preservation of tomato at household level	01	0	17	17	0	03	03	20
19.04.2023	PF	Promoting composting and Kitchen gardening for safe and sustainable food	01	0	17	17	0	03	03	20
07.07.2023	PF	Rakhi Making by using locally available material	01	0	17	17	0	03	03	20
11.10.2023	PF	Vaccination schedule for infants	01	0	17	17	0	03	03	20
<b>Plant Protection</b>										
22.01.2023	PF	IPM in mango	01	15	02	17	02	01	03	20
08.04.2023	PF	Control of diseases in zaid pulses (Urd/Moong)	01	15	02	17	02	01	03	20
03.08.2023	PF	Control of major insects & disease in Paddy	01	15	02	17	02	01	03	20
10.12.2023	PF	Control of white rust and aphids in Mustard crop	01	15	02	17	02	01	03	20
<b>Fisheries</b>										
18.01.2023	PF	Integrated fish farming management	01	15	02	17	02	01	03	20
09.04.2023	PF	Pre-stocking management of fish culture pond	01	15	02	17	02	01	03	20
11.07.2023	PF	Carp breeding and hatchery management	01	15	02	17	02	01	03	20
10.10.2023	PF	Composite fish culture techniques	01	15	02	17	02	01	03	20
<b>Agro forestry</b>										
05.01.2023	PF	Planting techniques of Mentha with Agro-forestry trees	01	15	02	17	02	01	03	20
04.05.2023	PF	Planting techniques of Cymbopogon spp with Agro-forestry trees	01	15	02	17	02	01	03	20

18.09.2023	PF	Management techniques of Agro-forestry trees	01	15	02	17	02	01	03	20
27.11.2023	PF	Plantation and nursery techniques of Poplar	01	15	02	17	02	01	03	20
21.12.2023	PF	Planting method of Poplar.	01	15	02	17	02	01	03	20
<b>Horticulture</b>										
02.01.2023	PF	Preparation of Vegetables Nursery in Low poly tunnel.	01	15	02	17	02	01	03	20
02.08.2023	PF	Management of macro & micro nutrient in mango orchard	01	15	02	17	02	01	03	20
07.12.2023	PF	Protection of newly established orchard from cold.	01	15	02	17	02	01	03	20

**i) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
15.05.23	PF	Soil Testing and its Utility	01	16	0	16	4	0	4	20
18.05.23	PF	Integrated plant nutrient management in rice	01	16	0	16	4	0	4	20
28.05.23	PF	Production techniques of Kharif pulses	01	16	0	16	4	0	4	20
29.06.23	PF	Weed management in rice	01	16	0	16	4	0	4	20
10.07.23	PF	Use and Importance of bio fertilizers in Kharif crops	01	16	0	16	4	0	4	20
21.09.23	PF	Crop residue management	01	16	0	16	4	0	4	20
22.09.23	PF	Intercropping of mustard in autumn planted sugarcane	01	16	0	16	4	0	4	20
05.10.23	PF	Intercropping in autumn planted sugarcane	01	16	0	16	4	0	4	20
12.10.23	PF	Scientific cultivation of wheat	01	16	0	16	4	0	4	20
10.11.23	PF	Importance of micro irrigation in pulse crop	01	16	0	16	4	0	4	20
08.12.23	PF	Weed management in wheat	01	16	0	16	4	0	4	20
22.12.23	PF	Importance of water soluble fertilizer in crops	01	16	0	16	4	0	4	20
12.01.23	PF	Importance of micro irrigation in sugarcane	01	16	0	16	4	0	4	20
05.02.23	PF	Intercropping in spring sugarcane	01	16	0	16	4	0	4	20
10.02.23	PF	Sugarcane ratoon management	01	16	0	16	4	0	4	20
<b>Live Stock Production.</b>										
12.01.2023	PF	Balance concentrate mixture for animals	01	15	02	17	02	01	03	20
20.04.2023	PF	Urea treatment of Wheat straw: Method and Feeding of animals.	01	15	02	17	02	01	03	20
12.05.2023	PF	Fodder production throughout the year	01	15	02	17	02	01	03	20
22.06.2023	PF	Mastitis in cattle and buffalo: Its symptoms and control.	01	15	02	17	02	01	03	20
14.09.2023	PF	Control of parasites in animals	01	15	02	17	02	01	03	20
07.10.2023	PF	Improved techniques of fodder production in rabi season	01	15	02	17	02	01	03	20
20.10.2023	PF	Care and feeding of heifers.	01	15	02	17	02	01	03	20
09.11.2023		Tympany: its causes and prevention								
23.11.2023	PF	Clean milk production	01	15	02	17	02	01	03	20
<b>Home Science</b>										
10.03.2023	PF	Clean milk production and value addition to milk	01	0	17	17	0	03	03	20
05.04.2023	PF	Importance of efficient fuel energy utilization	01	0	17	17	0	03	03	20
11.04.2023	PF	Post harvest handling and storage of grain	01	0	17	17	0	03	03	20
18.04.2023	PF	Drudgery reduction tools and their uses	01	0	17	17	0	03	03	20

10.05.2023	PF	General health problem: precaution and management	01	0	17	17	0	03	03	20
14.06.2023	PF	Solar energy uses: solar cooker	01	0	17	17	0	03	03	20
03.07.2023	PF	Dehydration causes and remedies. Preparation of ORS.	01	0	17	17	0	03	03	20
27.07.2023	PF	Efficient water uses at household	01	0	17	17	0	03	03	20
04.11.2023	PF	Control of household insects and pests	01	0	17	17	0	03	03	20
<b>Plant Protection</b>										
10-02-2023	PF	Biological management of white grub in sugarcane	01	15	02	17	02	01	03	20
17.02.2023	PF	IDM in mentha	01	15	02	17	02	01	03	20
09-03-2023	PF	IPM in Cucurbits crops	01	15	02	17	02	01	03	20
06-05-2023	PF	Control of root knot Nematodes in Vegetable crops	01	15	02	17	02	01	03	20
08-07-2023	PF	Control of major insects & disease in sugarcane	01	15	02	17	02	01	03	20
25-07-2023	PF	IPM in paddy	01	15	02	17	02	01	03	20
05-11-2023	PF	Integrated Pest Management in Wheat Crop	01	15	02	17	02	01	03	20
<b>Fisheries</b>										
21.02.2023	PF	Fish Seed production and hatchery management	01	15	02	17	02	01	03	20
20.05.2023	PF	Integrated fish farming	01	15	02	17	02	01	03	20
28.08.2023	PF	Fish seed rearing and management	01	15	02	17	02	01	03	20
12.10.2023	PF	Composite fish culture techniques	01	15	02	17	02	01	03	20
24.12.2023	PF	Eradication of weed and predatory fishes	01	15	02	17	02	01	03	20
<b>Agro Forestry</b>										
22.01.2023	PF	Trimming and pruning of Poplar.	01	15	02	17	02	01	03	20
12.02.2023	PF	Identification of Poplar clones in field	01	15	02	17	02	01	03	20
18.03.2023	PF	Intercropping of mentha spp. with Poplar and agroforestry trees	01	15	02	17	02	01	03	20
04.04.2023	PF	Fertilizer & irrigation management in poplar.	01	15	02	17	02	01	03	20
12.05.2023	PF	Planting techniques of sagon.	01	15	02	17	02	01	03	20
18.06.2023	PF	Planting techniques of Aromatic crops with Agro-forestry trees	01	15	02	17	02	01	03	20
29.07.2023	PF	Planting methods of Bamboo.	01	15	02	17	02	01	03	20
14.08.2023	PF	Suitable tree species for water logged area.	01	15	02	17	02	01	03	20
26.09.2023	PF	Suitable Poplar clones in various soil.	01	15	02	17	02	01	03	20
09.10.2023	PF	Identification and importance of Poplar clones in field.	01	15	02	17	02	01	03	20
17.11.2023	PF	Planting techniques of poplar	01	15	02	17	02	01	03	20
22.12.2023	PF	Nursery raising techniques of Poplar.	01	15	02	17	02	01	03	20
<b>Horticulture</b>										
10.02.2023	PF	Improve the quality of guava by modern packing.	01	15	02	17	02	01	03	20
18.03.2023	PF	Scientific Production technology of Papaya	01	15	02	17	02	01	03	20
03.04.2023	PF	Improve the Quality of Cauliflower by Blanching.	01	15	02	17	02	01	03	20
10.05.2023	PF	Training & Pruning of Guava orchard for improving winter crop.	01	15	02	17	02	01	03	20
03.07.2023	PF	Production technology of cucurbits crops.	01	15	02	17	02	01	03	20
05.09.2023	PF	Precaution at the time of Transplanting of Cauliflower & Chilly.	01	15	02	17	02	01	03	20
02.11.2023	PF	Pruning in Mango Orchards.	01	15	02	17	02	01	03	20

**ii) Vocational training programmes for Rural Youth**

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
<b>Crop Production</b>	Export quality basmati rice	Production techniques of export quality basmati rice	May, 23	05	8	0	8	2	0	2	10
	Natural Farming	Natural Farming	Oct., 20	05	8	0	8	2	0	2	10
<b>Livestock</b>	Management and balance feeding of farm animal	Broiler production	Feb. 23	06	06	02	08	01	01	02	10
<b>Home Science</b>	Ensuring employment	Articles made by Macramé	Oct. 23	15	0	08	08	0	02	02	10
<b>Plant Protection</b>	Small scale income generating enterprises	Mushroom Production technology	Jan-23	06	02	08	10	01	02	10	06
	Small scale income generating enterprises	Bio agents production technology	July-23	06	02	08	10	01	02	10	06
<b>Fisheries</b>	Integrated fish farming	Integrated fish farming management	Dec-23	05	02	08	10	02	00	02	10
<b>Agro Forestry</b>	Small scale income generating enterprises	Plantation and nursery raising techniques of Poplar and economics of Populus deltoides.	Nov-23	06	02	08	10	01	02	10	06
<b>Horticulture</b>	Nursery management	Role of mulching in nursery management	July-23	05	02	08	10	02	00	02	10

**iii) Training programme for extension functionaries**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>On Campus</b>										
<b>Crop Production</b>										
19.05.23	EF	Nursery management of paddy	1	8	0	8	2	0	2	10
20.05.23	EF	Role of extension worker in Export enhancement of basmati	1	8	0	8	2	0	2	10
13.08.23	EF	Importance of micro irrigation and fertigation in crops	1	8	0	8	2	0	2	10
15.09.23	EF	Intercropping in autumn planting sugarcane	1	8	0	8	2	0	2	10
08.12.23	EF	Production techniques of late sown wheat	1	8	0	8	2	0	2	10
10.02.23	EF	Mechanization in sugarcane ratoon	1	8	0	8	2	0	2	10
16.02.23	EF	Sugarcane ratoon management	1	8	0	8	2	0	2	10
<b>Livestock</b>										
20.02.2023	EF	Nutrition and feeding of cow and buffalo calves	01	20	0	20	0	0	0	20
14.03.2023	EF	Vaccination and other preventive measures against contagious diseases in animals	01	20	0	20	0	0	0	20
22.05.2023	EF	Green fodder production and preservation	01	20	0	20	0	0	0	20
13.07.2023	EF	Main cause of prolapsed, its prevention	01	20	0	20	0	0	0	20
<b>Home Science</b>										
19.01.2023	EF	Nutritional deficiency diseases, its symptoms and remedies in human being	01	0	08	08	0	02	02	10
27.01.2023	EF	Common food adulterants and their identification	01	0	08	08	0	02	02	10
04.05.2023	EF	Common food adulterants and their identification	01	0	08	08	0	02	02	10
06.07.2023	EF	Vaccination schedule for infants	01	0	08	08	0	02	02	10
20.11.2023	EF	Nutritional deficiency diseases, its symptoms and remedies in human being	01	0	08	08	0	02	02	10
<b>Plant Protection</b>										
17.02.2023	EF	Safe use of Bio pesticides	01	08		08	02	0	02	10

19.05.2023	EF	Use of Bio pesticide in Organic farming	01	08		08	02	0	02	10
16.09.2023	EF	Integrated pest management (IPM)	01	08		08	02	0	02	10
16.12.2023	EF	Identification of diseases and insect pests in Rabi crops	01	08		08	02	0	02	10
<b>Fisheries</b>										
19.06.2023	EF	Pre-stocking management of fish culture pond	01	08		08	02	0	02	10
20.09.2023	EF	Composite fish culture techniques	01	08		08	02	0	02	10
23.12.2023	EF	Integrated fish farming management	01	08		08	02	0	02	10
<b>Agro Forestry</b>										
19.01.2023	EF	Nutritional studies in Poplar	01	08		08	02	0	02	10
02.02.2023	EF	Intercropping of Mentha with Poplar	01	08		08	02	0	02	10
16.05.2023	EF	Irrigation and fertilizer schedule in Poplar	01	08		08	02	0	02	10
12.06.2023	EF	Suitable tree species for water logged areas.	01	08		08	02	0	02	10
14.08.2023	EF	Intercropping techniques of Cymbopogon spp. With trees.	01	08		08	02	0	02	10
31.08.2023	EF	Silvicultural practices of Bamboo and Sagon	01	08		08	02	0	02	10
23.11.2023	EF	Plantation and nursery raising techniques of Poplar.	01	08		08	02	0	02	10
10.12.2023	EF	Identification of Poplar clones in field.	01	08		08	02	0	02	10
<b>Horticulture</b>										
18.01.2023	EF	<b>Protected cultivation of Vegetable crops.</b>	01	08		08	02	0	02	10

iv) Sponsored programme : NIL



# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA SAHARANPUR**

**DETAILS OF ACTION PLAN OF KVK DURING 2023**  
(January - December 2023)

**1. GENERAL INFORMATION ABOUT THEKVK**

**1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail	Website
Krishi Vigyan Kendra Khajuri Bagh, Near Numaish Camp, New Gopal Nagar Saharanpur- 247001 (U.P.)	0132- 22970480	0132- 22970480	kvksaharanpur01 @gmail.com	saharanpur.kvk4.in

**1.2 .a. Name and address of host organization with phone, fax and e-mail**

Address	Telephone		E mail	Website
	Office	FAX		
Sardar Vallabhbhai Patel University of Agril. & Tech., Modipuram, Meerut-250110 (U.P.)	0121- 2888511	0121- 2888511	deesvpuat2014 @gmail.com	svbpmeerut.ac.in

1.2.b. Status of KVK website : Completed

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :

1.2.d Status of ICT lab at your KVK : No

**1.3. Name of the Programme Coordinator with phone & mobile no.**

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. I.K. Kushwaha	--	9412376121	kvksaharanpur01@gmail.com

**1.4. Year of sanction: 1992**



## 1.5. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	Subject Matter Specialist	Dr. I.K. Kushwaha	Professor/OIC (Plant Protection)	Ph.D (P.P.)	37400-67000	193800	10.04.1995	Permanent	OBC	9412376121	kushwahaik66@gmail.com	
2	Subject Matter Specialist	Dr. Sukhdev Singh	Prof.(Agro-forestry)	Ph.D Agro-Forestry	37400-67000	193800	05.07.1996	Permanent	OBC	9412522255	singh.sd3@gmail.com	
3	Subject Matter Specialist	Dr. Manoj Singh	SMS/Asstt. Prof.(Animal Science)	P.hD(Animal Science)	15600-39100	101100	23.06.2008	Permanent	Gen	9897494833	singhmanoj_21@rediffmail.com	
4	Subject Matter Specialist	Dr. Ravindra Tomer	SMS/T-6(Agronomy)	P.hD(Agro.)	15600-39100	56100	01.07.2022	Temporarily	Gen	9557043170	Ravindertomar07@gmail.com	
5	Subject Matter Specialist	Dr. Shalini Singh	SMS/T-6(Agronomy)	P.hD(Horticulture)	15600-39100	56100	02.07.2022	Temporarily	Gen	8887558141	drshalinisinghhorti@gmail.com	
6	Subject Matter Specialist	Miss. Kavita Bhatt	SMS/T-6(Home Science)	M.Sc.(Home Science)	15600-39100	56100	12.07.2022	Temporarily	Gen	9557384259	Kavitabhatter822@gmail.com	

7	Farm manager	Dr. Viendra Kumar	Prog. Asstt.	Ph.D (Ag. Botany)	9300-34800	86100	01.07.1998	Permanent	OBC	9837712827	virendrakumar053@gmail.com	
8	Computer Programmer	Sh. R. R Dhameshwar	Prog. Asstt. (Comp.)	PGDCA(2yr) & MCA	9300-34800	78800	27.10.1999	Permanent	SC	9927279434	rajdhameshwar_152@yahoo.co.in	
9	O/S cum Acctt.	Sh. Ashwani Kumar	O/S cum Acctt.	B.A	9300-34800	56900	30.07.2007	Permanent	SC	9897656491	ashwanikv@gmail.com	
10	Stenographer	Sh. Sumit Kumar	Jr. Steno	BCA, LLB	5200-20200	42800	30.07.2007	Permanent	OBC	9412663575		
11	Driver	Sh. Sanjay Kumar	Driver	B.A	5200-20200	33300	30.07.2007	Permanent	Other	9756909699		
12	Supporting staff	Sh. Sita Ram	Attendant	B.A	4440-7440	38600	01.07.1998	Permanent	Other	9411033979		

**1.6. Total land with KVK(in ha): 10.159ha**

Sl. No.	Item	Area (ha)
1	<b>At Administrative campus and crop cafeteria</b> (Administrative building, Farmers Hostel, Demonstration Units, Soil testing Lab., IFS model & Center of Excellence Unit (Food Processing Lab))	2.290
2	Mango	5.869
	Guava Orchard	1.0
4	Farmhouse, Go down, Tube well, threshing floor & other crops	1.0
	<b>Total:</b>	<b>10.159</b>

### 1.7. Infrastructural Development:

#### A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in lakh)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	April 2005	550 m <sup>2</sup>	31.50	01.06.06		Completed
2.	Farmers Hostel	ICAR		300 m <sup>2</sup>		01.06.06		Completed
3.	Staff Quarters (6)	ICAR		431 m <sup>2</sup>		01.06.06		Completed
4.	Demonstration Units (2)	ICAR		160 m <sup>2</sup>		01.06.06		Completed
5.	Fencing	ICAR		1000 m <sup>2</sup>		01.06.06		Completed
6.	Irrigation Channel	ICAR		800 m <sup>2</sup>		01.06.06		Completed
7.	Threshing floor	ICAR		300 m <sup>2</sup>		01.06.06		Completed
8.	Farm godown	ICAR		60 m <sup>2</sup>		01.06.06		Completed
9	Center of Excellence Unit (Food Processing Lab)	UPCAR		100 sqm		01.07.22		Completed

#### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Motor Cycle	2004	57,680.00	50740	Not Working
Jeep Bolero	2009	4,85,000.00	222428	Working

#### C) Equipments & A V aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status

### 1.8. A). Details of SAC meetings to be conducted in theyear

Sl.No.	Date
1. Scientific Advisory Committee	Proposed in December, 2023

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

Sl. No.	Farming system/enterprise
1	Agri. + Hort. + A.H.
2	Agri. + A.H.
3	Landless + A.H.

### 2.2. Description of Agro-climatic Zone & major agro ecological situations Table –

#### AGROECOLOGICAL SITUATIONS OF SAHARANPUR DISTRICT

Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
1.	I	More than 60 % of area rain fed, sandy and sandy loam	Maize, Wheat, Groundnut, Lentil, Guava, Mango, Brinjal, Bitter-guard, Cow, Goat, Sheep	Maize, Groundnut based+ Hort+AH (Cow, Goat, Sheep)	S. Kadeem, Muzaffarabad
2.	II	Irrigated Loam, Clay Loam soils	Rice, Wheat, S.cane, Mango, Vegetables, Buffalo, Cow	Paddy, Wheat, S. cane based+A.H. (Cow, Buffalo)+Hort	RampurManiharan, Baliakheri, Puwanrka
3.	III	Irrigated Sandy Loam, Loam (S.cane predominant)	S.cane, Wheat, Urd, Paddy, Mustard, Buffalo, Cow	S.cane based +Horticulture+A.H. (Cow, Buffalo)	Deoband, Nagal, Sarsawa, Nakur, Nanauta, Gangoh

### 2.3 Soil types

Sl. No.	Soil type	Area(ha)
1	Sandy	44280.00
2	Sandy loam & Loam	147706.00
3	Clay loam	81420.00
<b>Total:</b>		<b>273406.00</b>

### 2.4 Area, Production and Productivity of major crops cultivated in the district

Sl. No	Name of the commodity	1995			2000			2021		
		A	P	PY	A	P	PY	A	P	PY
1	Paddy	70700	184173	26.05	71740	170530	23.77	58505	1535052	28.70
2	Wheat	122100	331000	27.11	125396	370927	29.58	109144	3981620	39.65
3	Sugarcane	117000	6704100	573.00	1263000	764115	605.00	90605	57230465	678.0
4	Groundnut	7810	5412	6.93	4062	4992	12.99	3104	34580	12.50
5	Urd	304	205	6.74	--	--	--	1164	5548	6.40
6	Maize	10600	14310	13.50	7920	11870	14.28	7695	94725	14.0
7	Gram	240	227	9.64	52	44	8.53	20	50	6.0
8	Lentil	5400	3600	6.80	3975	3263	8.21	2452	18380	9.80
9	Mustard	3680	3440	9.37	1070	1040	9.72	823	8020	10.07
10	Pea	400	600	15.00	189	199	10.54	18	160	12.0

A- Area in ha., P- Production in M. tons., PY- Productivity in qt./ha

**AREA, PRODUCTION AND PRODUCTIVITY OF IMPORTANT COMMODITIES IN SAHARANPUR DISTRICT**

Sl.No.	Name of the commodity	Area (ha)/No.	Productivity (ton/ha)
<b>A</b>	<b>Vegetables</b>		
1	Cole crops	6985	31.00
2	Brinjal	4820	39.00
3	Tomato	2021	35.00
4	Pea	1984	17.50
5	Cucurbits	9820	19.10
6	Potato	1125	26.72
7	Capsicum	298	19.80
8	Okra	1921	19.00
<b>B</b>	<b>Spices</b>		
1	Onion	282	23.00
2	Chilli	248	18.40
<b>C</b>	<b>Fruits</b>		
1	Mango	26120	13.00
2	Guava	2330	19.80
3	Litchi	1610	10.15
4	Peach	139	10.52
<b>D</b>	<b>Others</b>		
1	Mushroom	152	39.5
2	Popular	100	200.0

A- Area in ha.

P- Production in M.tons.

**2.5 Weather data (Rainfall):**

Sl. No.	Month	Average Rainfall in mm
1	Jan., 2022	5.7
2	Feb., 2022	9.8
3	March, 2022	3.9
4	April, 2022	10.20
5	May, 2022	13.60
6	June, 2022	122.40
	<b>Total</b>	<b>193.2</b>

**2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district**

Category	Population	Production	Productivity(kg/day/animal)
<b>Cattle</b>			
Crossbred	10812		3.8
Indigenous	70225		2.1
<b>Buffalo</b>	270120		4.3
<b>Sheep</b>	30124		--
Crossbred	2120		--
Indigenous	30890		--
<b>Goats</b>	53250		--
<b>Pigs</b>	32548		--
Crossbred	7147		--
Indigenous	35180		--
<b>Poultry</b>	225030		--
<b>Category</b>	<b>Area (ha)</b>	<b>Production (qt.)</b>	<b>Productivity (qt./ha)</b>
Fish	423.00	12450 .00	35.00

## 2.7 Details of Operational area /Village

Sl. No.	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	BaliyaKheri	Hasanpur, Nandi&Bhalaswa	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows &Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health &nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
2	Punwaraka	Punwarka, Chandpur, Amarpur, Chaurakhurd, Chauradev&Budhakhera	Sugarcane, Wheat, paddy, Lentil, Urd, Mustard, Mango, Cows &Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
3	Nakur	Dednore, Fundpuri&NichliNakur	Sugarcane, Wheat, paddy, Lentil, Urd, Mustard, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
4	Sarsanwa	Patna & Patni	Sugarcane, Wheat, paddy, Lentil, Urd, Mustard, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health &nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
5	Nagal	Gangdaspur&BadediKoli	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
6	Rampur	Madnuki&Malhipur	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills

7	Gangoh	Mubarikpur, Radore&Alipura	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
8	Muzaffarabad	Manchhipur& BahedaKanla	Sugarcane, Groundnut, Wheat,	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper	Promoting seed production, IPNM, IPM, IDM, Proper health
			paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	& nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
9	Deoband	Miragpur, Vastum&Bhayla	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
10	Sadauli Kadeem	Rampur Badkala, Murtazapur&Baghuwala	Groundnut, Guava, Wheat, paddy, Lentil, Brinjal, Mango, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills
11	Nanauta	Maheshpur, Hangawali.&Amhetachand	Sugarcane, Wheat, paddy, Lentil, Brinjal, Mango, Poultry, Cows & Buffaloes	Poor quality seed, Imbalance fertilizer application, No seed treatment, Improper plant protection majors, Imbalanced feeding in animals, Improper hygenic condition, Lack of technical knowledge, Marketing problem etc	Promoting seed production, IPNM, IPM, IDM, Proper health & nutrition management in animals, Promoting VallabhKrishak Club, Resource Conservation Technologies, Improving technical skills

## 2.8 Priority thrust areas

Crop/Enterprise	Thrust area
Rice	IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Sugarcane	IPNM, Weed management, IPM, IDM, Seed production
Wheat	Integrated Nutrient Management, Weed management, IPM, IDM, Seed production
Oilseeds & Pulses crop	Sulphar application & IPM
Vegetables	IPNM & IPM
Animals	Poultry, Piggery and Improving fertility

1. Maintenance of soil productivity through IPNM and soil Testing
2. Promoting export quality Basmati production
3. Popularizing IPM technologies for management of insect pests
4. Mineral mixture supplementation among animals for improving fertility
5. Promoting Group Approach of Extension through VallabhKrishak Clubs

### 3. TECHNICALPROGRAMME

#### 3. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
12	64	37.75	120

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
159	2800	2138	17015

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
30.00	20,000	0	1200 (3000 soil health cards)

#### 3. B. Abstract of interventions to beundertaken

S. N.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Weed mgt.	Wheat	High incidence of weeds in wheat crop	--	Weed mgt. through Clodinophop+ Metsulfuron	Yes	Yes	Field day	Clodino phop+ Metsulfuron
2		Paddy	High incidence of weeds in paddy crop	--	Popularization of Visparibac sodium 10% SC	Yes	Yes	Field day	Visparibac sodium (Novino gold)
3	IDM	Paddy	High incidence of disease in paddy crop	--	Neck blast mgt. through fungicides	Yes	Yes	-do-	Mancozeb +Carbendazim@3g m/kg seed&spray Tricylazole 75WP
4		Wheat	High incidence of disease in wheat crop	--	Yellow rust mgt. through seed treatment & fungicide spray	Yes	Yes	-do-	Mancozeb+Carbendazim@3gm/kg seed, Propiconazole @0.1% &Tebuconazole 25EC @0.1%
5	IPM	Mango	Low yield due to heavy incidence of shoot gall maker insect in mango.	--	Control of shoot maker(Psylliasp) insect through insecticide (Thiomethoxam@1gm/lit.+Profenophos@2gm/lit. water , two spray (2& 14 August)	Yes	Yes	-do-	Thaiomethoxam



6		Guava	Incidence of fruit borer		Management of fruit fly through Pheromone Methylelujinol lure(20Traps/ha), Lure change after 25 days interval at 3 times	Yes	Yes	-do-	Trap & Lure
7		Wheat	Low yield due to high incidence of nematode.	Assessment of nematode management in paddy	--	Yes	Yes	-do-	Paecilomyces lilacinus
8	Varietal	Wheat	Low yield & high infestation of rust disease due to unavailability improved varieties	Assessment of biofertilized variety	--	Yes	Yes	-do-	Improved seed & disease resistance varieties
9		Wheat	Low yield due to old variety	--	Introduction of timely sown	Yes	Yes	-do-	Improved seed
10		Wheat	Low yield due to old variety	--	Introduction of late sown variety HD-3059	Yes	Yes	-do-	Improved seed
11		Paddy	Low yield & high infestation of rust disease due to unavailability improved varieties		Improved seed	Yes	Yes	-do-	Improved seed
12		Bottle gourd	Low yield due to old variety	--	To demonstrate the yield potential of hybrid variety of bottle gourd	Yes	Yes	-do-	Seed
13		Cucumber	Low yield due to old variety	--	Varietal performance & demonstration for yield potential of cucumber	Yes	Yes	-do-	Seed
14		Cauliflower	Low yield due to old variety	--	To evaluate and demonstrate the yield potential of Cauliflower variety	Yes	Yes	-do-	Seed
15	RCT	Cereals	Longer time of de-composition	Assessment of different de-composer	--	Yes	Yes	-do-	Decomposer
16	Farm machinery	Paddy-Wheat system	Soil health status and environment pollution	Assessment of different machines for In-Situ management	--	Yes	Yes	-do-	Machinery
17	ICM	Mango	Low yield & income due to high dense of mango orchard	Central window opening system in mango orchard	--	Yes	Yes	-do-	COC - 2kg + Window opening expd.
18		Mustard	Low yield due to old variety	--	IPNM, IPM & varietal	Yes	-	-do-	Seed - Bio-agent / Chemical pesticide - Fertilizer

19		Black gram	Low yield due to old variety	--	IPNM, IPM & varietal	Yes	-	-do-	Seed - Bio-agent / Chemical pesticide - Fertilizer
20		Green gram	Low yield due to old variety	--	IPNM, IPM & varietal	Yes	-	-do-	Seed - Bio-agent / Chemical pesticide - Fertilizer
21		Lentil	Low yield due to old variety	--	IPNM, IPM & varietal	Yes	-	-do-	Seed - Bio-agent / Chemical pesticide - Fertilizer
22	Promoting self-employment through mushroom production	Mushroom	Unemployment	--	Popularization of mushroom production	Yes	-	-do-	Seed
	Promoting self-employment through Agro-forestry	Poplar	Unemployment	--	Popularization of poplar production in sugarcane & wheat under Agroforestry	Yes	-	-do-	clones
23	Dairy nutrient mgt.	Buffalo	Low milk yield and income due to conventional ration feeding	--	<b>Bye-pass animal feed</b> to enhancing milk yield.	Yes	-	-do-	Balance feed/ Nutrient supplements
24		Cow	High incidence of infertility in cows	Assessment of UMMB animal feed supplement ationto control the infertility	--	Yes	-	-do-	UMMB
25	Production and Management	Poultry	Low income and un-employment	Assessment of dual poultry breeds	--	Yes	-	-do-	Chicks & feed

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1									1
Integrated Farming System(CRM)	1									1
Environment conservation								1		1
Integrated Pest Management	2									2
Resource conservation technology (De-composer)	1					1				2
Diversity maintenance of crop					1					1
Drudgery reduction	1			1						2
<b>TOTAL</b>	<b>6</b>			<b>1</b>	<b>1</b>	<b>1</b>		<b>1</b>		<b>10</b>

#### A.2. Abstract on the number of technologies to be assessed in respect of livestock/ enterprises

Thematic areas	Cattle/ Cow	Poultry	Sheep	Goat	Piggery	Buffalo	Fisheries	TOTAL
Dairy nutrient management						1		1
Production and Management								1
Poultry		1						1
<b>TOTAL</b>		<b>1</b>				<b>1</b>		<b>2</b>

### B. Details of On Farm Trial

#### 3.1 ON FARM TRIALS

##### OFT-1

Particulars	Contents
<b>Title</b>	Assessment of different machinery for In-Situ crop residue management
<b>Problem diagnosed</b>	Low soil health status and environment pollution
<b>Micro farming situation</b>	Irrigated
<b>Thematic area</b>	Integrated farming system
<b>Details of technology identified for solution</b>	T1: Farmer practice (Manually/Burning) T2: Mulchar/Chopper T3: Happy Seeder
<b>No. of farmers</b>	05
<b>Replications</b>	03
<b>Critical inputs</b>	Seed
<b>Production system</b>	Paddy -Wheat
<b>Source of technology</b>	PAU, Ludhiana
<b>Total Cost</b>	9000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>No. of irrigation, Organic Matter Content</li> <li>Yield(q/ha)</li> <li>Net profit &amp; B:Cratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>Adoption &amp; Cost</li> </ul>

**OFT-2**

Particulars	Contents
<b>Title</b>	Assessment of nematode management in paddy
<b>Problem diagnosed</b>	Low yield due to high incidence of nematode.
<b>Micro farming situation</b>	Irrigated
<b>Thematic area</b>	IPM
<b>Details of technology identified for solution</b>	T1 : Use of Furadon @20kg/ha (Farmer Practice) T2: Paecilomyces lilacinus (Bio) 1 lit./acre
<b>No. of farmers</b>	05
<b>Replications</b>	03
<b>Critical inputs</b>	Paecilomyces lilacinus
<b>Production system</b>	Paddy -Wheat
<b>Source of technology</b>	GBP UA&T, Pantnagar
<b>Total Cost</b>	5000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Infestation(%), Yield(q/ha)</li> <li>• Net profit &amp; B:Cratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

**OFT-3**

Particulars	Contents
<b>Title</b>	Effect of insecticide & bactericide on symptoms show dwarf plant in paddy
<b>Problem diagnosed</b>	Low yield due to high incidence of unknown diagnosis symptom
<b>Micro farming situation</b>	Irrigated
<b>Thematic area</b>	IPM
<b>Details of technology identified for solution</b>	T1 : Use of micro nutrients (Farmer Practice) T2: Dinotefuron @2ml/lit. T3: Dinotefuron @2ml/lit. + Zinc T4: Dinotefuron @2ml/lit. + Zinc + Kasugamycin T5: Thiophenate methyl + Kasugamycin
<b>No. of farmers</b>	05
<b>Replications</b>	03
<b>Critical inputs</b>	--
<b>Production system</b>	Paddy -Wheat
<b>Source of technology</b>	IARI, Pusa, New Delhi
<b>Total Cost</b>	5000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Infestation(%), Yield(q/ha)</li> <li>• Net profit &amp; B:Cratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

**OFT-4**

Particulars	Contents
<b>Title</b>	Assessment of Pusa de-composer for composting
<b>Problem diagnosed</b>	Long time for decomposition
<b>Micro farming situation</b>	Irrigated
<b>Thematic area</b>	Organic farming
<b>Details of technology identified for solution</b>	T1: No de-composer use (Farmer Practice) T2: Pusa de-composer
<b>No. of farmers</b>	15

<b>Replications</b>	15
<b>Critical inputs</b>	de-composer
<b>Production system</b>	Mixed farming
<b>Source of technology</b>	IARI & NCOF
<b>Total Cost</b>	3000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Time duration for de-composition, Income &amp; Yield(q/ha)</li> <li>• Net profit &amp; B:Cratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

#### OFT-5

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Central window opening system in mango orchard
<b>Problem diagnosed</b>	Low yield & income due to high dense of mango orchard
<b>Micro farming situation</b>	Irrigated
<b>Thematic area</b>	Resource conservation
<b>Details of technology identified for solution</b>	T1: No window opening(Farmer Practice) T2: Window opening in the month of Nov.-Dec.
<b>No. of farmers</b>	03
<b>Replications</b>	03
<b>Critical inputs</b>	COC - 2kg + Window opening expenditure
<b>Production system</b>	Mango - Guava
<b>Source of technology</b>	CISH, Lucknow
<b>Total Cost</b>	4000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Fruits size, quality &amp; Yield(q/ha)</li> <li>• Net profit &amp; B:Cratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

#### OFT-6

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Performance of mid maturing variety of Pea (Powdery mildew resistant)
<b>Problem diagnosed</b>	Low yield performance and disease (powdery mildew) in the varieties sown by farmers due to continuous growing of similar variety year by year
<b>Thematic area</b>	Diversity maintenance of crop
<b>Details of technology identified for solution</b>	T1: Arkel and PSM-3 (Farmer Practice) T2: Pusa Prabal
<b>No. of farmers</b>	4
<b>Replications</b>	2
<b>Critical inputs</b>	Seed (Improved variety)
<b>Production system</b>	Paddy + Garden Pea
<b>Source of technology</b>	IARI, New Delhi
<b>Total Cost</b>	3000
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Seeds per pod, quality &amp; Yield(q/ha)</li> <li>• Net profit &amp; B:C ratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

#### OFT-7

<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	Assessment of bio-fortified wheat varieties
<b>Problem diagnosed</b>	Low yield and low nutrition value
<b>Micro farming situation</b>	Irrigated
<b>Thematic area</b>	Varietal evaluation
<b>Details of technology identified for solution</b>	T1: Farmer Practice (HD-2967) T2: BW-02 T3: HPBW-01
<b>No. of farmers</b>	05

<b>Replications</b>	03
<b>Critical inputs</b>	Seed
<b>Production system</b>	Rice-Wheat System
<b>Source of technology</b>	DWR, Karnal and IARI, New Delhi
<b>Total Cost</b>	8000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Germination(%)</li> <li>• No. of tillers/plant,</li> <li>• 1000 grain weight</li> <li>• Grain Yield(q/ha)</li> <li>• Net return (Rs./ha) &amp; B:Cratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

#### OFT-8

Particulars	Contents
<b>Title</b>	Poplar new clone under Agro-forestry System.
<b>Problem diagnosed</b>	Low yield & income due to old poplar clones.
<b>Micro farming situation</b>	Irrigated
<b>Thematic area</b>	Environment conservation
<b>Details of technology identified for solution</b>	T1: Use of old poplar clones (Farmer Practice) T2: Use of new Poplar clones ..
<b>No. of farmers</b>	02
<b>Replications</b>	02
<b>Critical inputs</b>	Recent poplar clones.
<b>Production system</b>	Poplar + wheat , Poplar +Suar cane
<b>Source of technology</b>	FRI Dehradun
<b>Total Cost</b>	4000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Plant Height, Plant girth, Disease ,Insect ,quality &amp; Yield(q/ha)</li> <li>• Net profit &amp; B:Cratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

#### OFT-9:

Crop/Enterprise	<b>Poultry</b>
Title	Assessment of dual poultry breeds
Problem diagnosed	Low income and un-employment
Farming situation	Mixed farming
Thematic area	Poultry
Source of technology	Pant Nagar and CARI
<b>Details of technologies selected for assessment/refinement</b>	
T1	Farmer's practice (Local breeds)
T2	Van Raja/ Karaknath
No. of farmers/Chicks	05/150
Duration	1 year
Critical Input	Chicks & feed
Observations to be recorded	<ul style="list-style-type: none"> <li>• Body weight at different stages</li> <li>• Egg yield</li> <li>• Employment generation</li> <li>• B:Cratio</li> </ul>
Total cost of OFT	Rs 10000/-

#### OFT-10 : OFT On UMMB(Urea Molasses Mineral Block) Animal Feed Supplementation

Crop/Enterprise	<b>Buffalow</b>
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Title	Effect of Urea Molasses Mineral Block supplementation on Milk Production and Reproductive Performance in Lactating Buffalo.
Problem diagnosed	Low milk yield and Infertility due to imbalance nutrients
Farming situation	Mixed farming
Thematic area	Dairy Nutrient management
Source of technology	IVRI, Izatnagar Bareilly
Farmer's Practice	Use of Chokar& Common Salt
<b>Details of technologies selected for assessment/refinement</b>	
T1	Use of Chokar& Common Salt
T2	UMMB supplementation(licking)@ 300gm/day/animal
No. of famers/Animals	05/05
Duration	120 days
Critical Input	UMMB
Observations to be recorded	<ul style="list-style-type: none"> <li>• Conceptionrate</li> <li>• Milkyield andB:Cratio</li> </ul>
<b>Total cost of OFT</b>	<b>Rs 8000/-</b>

### On Farm Trail (Home Science)

#### OFT-11

Particular	Content
Title	Assessment of two-row rice transplanter for drudgery reduction and improving efficiency.
Problem diagnosed	Fatigue due to bending posture in traditional method of transplantation. Haphazard transplanting (not in row) of seedlings so problem in weeding. Lesser efficiency in traditional method.
Thematic area	Drudgery reduction and efficiency improvement
Details of technology identified for solution	T <sub>1</sub> : Traditional practice T <sub>2</sub> : Transplanting using two row rice transplanter
No. of farmers	5
Replications	03
Critical inputs	Two row rice transplanter
Source of technology	Developed at CRRI, Cuttack Source of Availability 1. Central Rice Research Institute, Cuttack, Orissa – 753 006. 2. M/s. Siddeshwar Engineering, Bidyadharpur, Cuttack
Total cost	6000/- each
Observation to be recorded	<ul style="list-style-type: none"> <li>• Cardiac cost of work of the farm women</li> <li>• Posture of the farm women</li> <li>• Productivity of the farm women</li> <li>• Systematic line sowing</li> <li>• Yield and C:B ratio</li> </ul>
Reaction of the farmers	Adoption and cost

#### OFT-12

Particular	Content
Title	Assessment of sugarcane stripper for cutting sugarcane crop
Problem diagnosed	Traditional sugarcane tripping or blading cane by hand is a slow, tedious, and disagreeable business, and as the blades have sharp edges, they often cut and lacerate the hand of the operator

Thematic area	Drudgery reduction, efficiency improvement and safety
Details of technology identified for solution	T <sub>1</sub> : Sugarcane stripping using traditional practice T <sub>2</sub> : Using sugarcane stripper for cutting sugarcane crop
No. of farmers	5
Replications	03
5Critical inputs	sugarcane stripper
Production system	Sugarcane
Source of technology	Developed at IISR Lucknow and refined at OUAT Bhubaneswar Available at Department of Farm Machinery and Power, College of Agricultural Engineering and Technology, OUAT, Bhubaneswar- 751 003.
Total cost	220/-
Observation to be recorded	<ul style="list-style-type: none"> <li>• Cardiac cost of work of the farm women</li> <li>• Posture of the farm women</li> <li>• Efficiency of the farm women</li> <li>• Farm women's attitude towards safety while using the machine.</li> </ul>
Reaction of the farmers	Adoption and cost

### 3.2 Details of Frontline Demonstrations

#### Cluster Frontline Demonstrations to be organized Oilseeds

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ Demo.	Parameters identified
1	Til (Tarun) GJT-5	ICM	IPNM, IPM & varietal	-Seed - Bio-agent / Chemical pesticide - Fertilizer	Kharif 2023	10.0	25	Yield/Profit/ C:B ratio
2	Mustard	ICM	IPNM, IPM & varietal	-Seed - Bio-agent / Chemical pesticide - Fertilizer	Rabi 2023-24	20.0	50	-Seed - Bio-agent / Chemical pesticide - Fertilizer

#### Extension and Training activities under CFLDs

S.No.	Activity	Til		
		No. of activities	Month	Number of participants
1	Farmers Training	02	July & Oct.	20
2	Field days	01	Oct.	25
3	Media coverage	02	Sept., & Oct.	--
4	Training for extension functionaries	01	Oct.	10

#### Extension and Training activities under CFLDs

S.No.	Activity	Mustard		
		No. of activities	Month	Number of participants
1	Farmers Training	02	Oct. & Jan.	20
2	Field days	01	Feb.	30
3	Media coverage	02	Oct. & Jan.	--
4	Training for extension functionaries	01	Feb.	15

#### Pulses

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ Demo.	Parameters identified
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1	Black gram (PU-30)	ICM	IPNM, IPM & varietal	-Seed - Bio-agent / Chemical pesticide - Fertilizer	Zaid 2023	30.0	75	Yield/Profit/ C:B ratio
2	Black Gram (PU-31/PU-10)	ICM	IPNM, IPM	-Seed - Bio-agent / Chemical pesticide - Fertilizer	Kharif 2023	20.0	50	Yield/Profit/C:B ratio
3	Green gram (IPM-2-3)	ICM	IPNM, IPM & varietal	-Seed - Bio-agent / Chemical pesticide - Fertilizer	Kharif 2023	10.0	25	Yield/Profit/ C:B ratio
4	Pigeon Pea (Pant Arhar-6)	ICM	IPNM, IPM	-Seed - Bio-agent / Chemical pesticide - Fertilizer	Kharif 2023	20.0	50	Yield/Profit/C:B ratio
5	Lentil (PL-8)		IPNM, IPM & varietal	- Bio-agent / - Bio-agent / Chemical pesticide - Fertilizer	Kharif 2023			C:B ratio

#### Extension and Training activities under CFLDs

S.No.	Activity	Green gram/Black gram			Lentil		
		No. of activities	Month	Number of participants	No. of activities	Month	Number of participants
1	Farmers Training	02	June & Sept.	20	02	Oct. & Jan.	30
2	Field days	01	Sept.	30	01	Feb.	35
3	Media coverage	02	July & Sept.	--	02	Oct. & Jan.	--
4	Training for extension functionaries	01	Sept.	10	01	Feb.	15

#### Extension and Training activities under CFLDs

S.No.	Activity	Black gram			Pigeon Pea		
		No. of activities	Month	Number of participants	No. of activities	Month	Number of participants
1	Farmers Training	02	July & Sept.	20	02	July & Sept.	30
2	Field days	01	Sept.	30	01	Sept.	35
3	Media coverage	02	July & Sept.	--	02	July & Sept.	--
4	Training for extension functionaries	01	Sept.	10	01	Sept.	15

#### A. Details of Frontline Demonstrations to be organized -

Sl. No.	Crop	Variety	hematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmer s/ demon .	Parameters identified
1	Cucumber	Pusa Long Green (DC-83)/Pusa seedless cucumber	Yield improvement and varietal evaluation	Varietal performance & demonstration for yield potential of cucumber variety or hybrid	Seed	Spring 2023	0.5	10	Yield/Profit/ C:B ratio

2	Guava	L-49	IPM	Management of fruit fly through Pheromone Methylujinol lure(20Traps/ha), Lure change after 25 days interval at 3 times	Trap & Lure	Zaid 2023	4.0	10	Yield/Profit/C:B ratio/insect Pestinfestation
3	Paddy	PB- 1509/PB-1	Weed mgt.	Weed management through Visparibac Sodium10% SC	BisparibacSodium 10% SC (Nominee gold) @80 gm/ demo.	Kharif 2023	4.0	10	Yield/Profit/ C:B ratio
4	Paddy	PB- 1718	VE	Improved seed	Seed	Kharif 2023	4.0	10	Yield/Profit/ C:B ratio
5	Paddy	PB-1	IDM	Neck blast mgt. through fungicides	Seed treatment Mancozeb +Carbendazim@3gm/ kg seed&spray Tricylazole 75WP @ 0.1%	Kharif 2023	4.0	10	Yield/Profit/ C:B ratio
6	Bottle gourd	NDBGH-4	Yield improvement	To demonstrate yield potential of hybrid var. bottle gourd	Seed	Kharif 2023	1.0	10	Yield/Profit/ C:B ratio
7	Mango	Dusheri	IPM	Control of shoot maker(Psylliasp) insect through insecticide (Thiomethoxam@1gm/lit.+Profenophos@2gm/lit. water , two spray (2& 14 August)	Thiomethoxam@1gm /lit.+Profenophos	Kharif 2023	2.0	5	Yield/Profit/ C:B ratio
8	Poplar	C-9,C-10	IPM	Popularization of new varieties	Sampling	Rabi 2023-24	2.0	5	Yield/Profit/ C:B ratio
9	Cauliflower	PusaShukti/ PusaPaushija	Yield improvement and varietal evaluation	To evaluate and demonstrate the yield potential of Cauliflower variety	Seed	Rabi 2023-24	0.25	10	Yield/Profit/ C:B ratio
10	Wheat	HD-2967	Weed mgt.	Weed mgt. through Clodinophop+ Metsulfuron	Clodinophop 400gm+ Metsulfuron 8gm /ha	Rabi 2023-24	4.0	10	Yield/Profit/ C:B ratio
11	Wheat	variety HD-3226	Varietal introduction	Introduction of timely sown	Seed	Rabi 2023-24	4.0	10	Yield/Profit/Incidence of disease/C:B ratio
12	Wheat	DBW-187	Varietal introduction	Introduction of late sown variety HD- 3059	Seed	Rabi 2023-24	4.0	10	Yield/Profit/Incidence of disease/C:B ratio
13	Wheat	HD-2967	IDM	Yellow rust mgt. through seed treatment & fungicide spray	Mancozeb +Carbendazim@3gm/ kg seed, Propiconazole@0.1% &Tebuconazole 25EC@0.1%	Rabi 2023-24	4.0	10	Yield/Profit/Incidence of disease/C:B ratio
<b>Total</b>									

## B. Extension and Training activities underFLDs

S. No.	Activity	No. of activities	Month	Number of participants
<b>1.</b>	<b>Cucumber</b>			
1	Field days	02	March	50
2	Farmers Training	01	Feb	25
3	Media coverage	01	Feb	--
<b>2</b>	<b>Guava</b>			
1	Field days	02	June & July	25
2	Farmers Training	01	March	20
3	Media coverage	02	July & Sept.	--

4	Training for extension functionaries	01	Aug.	10
<b>3</b>	<b>Paddy (PB-1509)</b>			
1	Farmers Training	02	June	20
2	Field days	01	Sept.	25
3	Media coverage	02	July & Aug.	--
4	Training for EF	01	June	10
<b>4</b>	<b>Paddy(PB-1718)</b>			
1	Farmers Training	01	Sept.	65
2	Field days	01	June	30
3	Media coverage	03	June & Sept.	--
4	Training for extension functionaries	01	June	10
<b>5</b>	<b>Paddy (PB-1)</b>			
1	Field days	01	Oct.	30
2	Farmers Training	01	July	20
3	Media coverage	02	Sept. & oct.	--
4	Training for extension functionaries	01	June	10
<b>6</b>	<b>Bottle Gourd</b>			
1	Field days	02	June & July	25
2	Farmers Training	01	March	20
3	Media coverage	02	July & Sept.	--
4	Training for extension functionaries	01	Aug.	10
<b>7</b>	<b>Mango</b>			
1	Field days	02	Oct. & Feb.	25
2	Farmers Training	01	July	20
3	Media coverage	02	July & Sept.	--
<b>8</b>	<b>Poplar</b>			
<b>1.</b>	Field days	01	Jan.	25
<b>2.</b>	Farmers Training	02	March	20
<b>3.</b>	Media coverage	01	Nov.	--
<b>4.</b>	Training for extension functionaries	03	Dec.	30
<b>9</b>	<b>Cauliflower</b>			
2	Field days	02	Dec.	50
3	Farmers Training	01	Sept.	25
4	Media coverage	01	Sept.	--
<b>10</b>	<b>Wheat (HD-2967)</b>			
1	Farmers Training	02	Oct.	25
2	Field days	01	March	20
3	Media coverage	02	Feb. & March	--
4	Training for EF	01	Nov.	10
<b>11</b>	<b>Wheat (HD-3226)</b>			
1	Field days	01	March	40
2	Farmers Training	01	Nov.	30
3	Media coverage	02	Nov. & Feb.	--
4	Training for extension functionaries	01	Dec.	18
<b>12</b>	<b>Wheat (3059)</b>			
1	Field days	01	March	55
2	Farmers Training	01	Nov. & Feb.	30
3	Media coverage	02	Nov. & Feb.	--
4	Training for extension functionaries	01	Dec.	20
<b>13</b>	<b>Wheat (HD-2967)</b>			
1	Field days	01	March	45
2	Farmers Training	01	Nov.	22
3	Media coverage	02	Nov. & Feb.	--
4	Training for extension functionaries	01	Nov.	20

**C. Details of FLD onEnterprises:  
(i) Mushroom**

S N	Crop	Thematic area	Technology for demonstration	Critical inputs	Season and year	Unit	No. of farmers/ Demo.	Parameters identified
1	Mushroom button	Mushroom production	Popularization of mushroom production	Spawn 10.0 kg/ farmer	Rabi 2023-24	10	10	Yield/ Profit/ C:B ratio

### B. Extension and Training activities under FLDs

S.No.	Activity	No. of activities	Month	Number of participants
1	Field days	01	Dec	25
2	Farmers Training	02	Oct. & Jan.	20
3	Media coverage	02	Oct. & Jan.	--
4	Training for extension functionaries	01	Feb.	15

### (ii) Livestock Enterprises

Topic	Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators	Budget required (inRs.)
Popularization of by-pass animal feed	Dairy	Milch animals	15	15	Animal feed	<ul style="list-style-type: none"> <li>Milk yield</li> <li>Health reaction</li> <li>B:C ratio</li> </ul>	20000.00
Mineral & vitamin supplementation	Dairy	Milch animals	20	20	Mineral mixture @50gm/day/ani mal for 120 days	<ul style="list-style-type: none"> <li>Conception rate</li> <li>Milk yield</li> <li>Estrous cycle regularity</li> <li>B:C ratio</li> </ul>	20000.00
Effect of dewormer & livol on mortality in buffalo calves	Dairy	Buffalo-Calves	30	60	1. Dewormer (Albendazole+Ivermectin) syrup (30 ml)- 60 vial 2. Livol powder 100 gm:( 60 pkt)	<ul style="list-style-type: none"> <li>Mortality rate</li> </ul>	5000.00
<b>Total:</b>			<b>65</b>	<b>95</b>		<input type="checkbox"/>	

### Front line demonstration of Home Science

Sl. No.	Thematic area	Technology for demonstration/ Intervention	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo.	Parameters identified
1.	Nutrition security through nutria garden	Demonstration of nutri-garden to add variety of nutrients to the diet.	Vegetable seeds	Rabi Kharif	0.15	15	No. of nutrients included in diet/BMI/Yield/
2.	Fruit Post harvest management	Method demonstration of processing of seasonal fruit	Seasonal fruits, Synthetic food color & food preservatives	Rabi Kharif	NA	15	Shelf life of product, amount of processed products, colour, flavor & taste, Profitability (raw vs processed cost)
3.	Value addition of millets	Method demonstration of value addition of millets	Finger Millets, baking soda, powdered jaggery & apple cider	kharif	NA	15	Color, flavor, softness & taste of the product. Profitability (raw vs processed cost) Pre & post knowledge

### 3.3 Training (Including the sponsored and FLD training programmes):

#### A) ONCampus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>	0	0	0	0	0	0	0	0
<b>I Crop Production</b>	0	0	0	0	0	0	0	0
IPNM	1	18	0	18	2	0	2	20
Water management	1	17	0	17	3	0	3	20
Crop Residue Management	1	16	0	16	4	0	4	20
Cropping Systems	1	16	0	16	4	0	4	20
Integrated Crop Management	1	16	0	16	4	0	4	20
<b>II Horticulture</b>	0	0	0	0	0	0	0	0
<b>a) Vegetable Crops</b>	0	0	0	0	0	0	0	0
Production of low volume and high value crops	3	47	0	47	13	0	13	60
Protected cultivation	1	18	0	18	2	0	2	20
<b>III Soil Health and Fertility Management</b>	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	1	16	0	16	4	0	4	20
Soil and Water Testing	2	34	0	34	6	0	6	40
<b>IV Livestock Production and Management</b>	0	0	0	0	0	0	0	0
Dairy Management	2	31	0	31	9	0	9	40
Disease Management	1	17	0	17	3	0	3	20
Feed management	1	18	0	18	2	0	2	20
<b>V Home Science/Women empowerment</b>	0	0	0	0	0	0	0	0
High nutrition diet	1	0	16	16	0	4	4	20
SHG	1	0	17	17	0	3	3	20
Storage loss minimization techniques	1	0	15	15	0	5	5	20
Value addition	1	0	14	14	0	6	6	20
<b>VI Agril. Engineering</b>	0	0	0	0	0	0	0	0
<b>VII Plant Protection</b>	0	0	0	0	0	0	0	0
Seed treatment	1	17	0	17	3	0	3	20
IDM	1	18	0	18	2	0	2	20
IPM	1	16	0	16	4	0	4	20
ICM	1	16	0	16	4	0	4	20
<b>VIII Plant Breeding</b>	0	0	0	0	0	0	0	0
Varietal diversification	2	33	0	33	7	0	7	40
Seed production	5	82	0	82	18	0	18	100
<b>VIV Agroforestry</b>								
Plant fit for agro-forestry.	1	16	0	16	4	0	4	20
Poplar Clone production.	1	16	0	16	4	0	4	20
Plantation Under Agro-forestry	4	64	0	64	16	0	16	80
<b>TOTAL</b>	<b>37</b>	<b>542</b>	<b>62</b>	<b>604</b>	<b>118</b>	<b>18</b>	<b>136</b>	<b>740</b>
<b>(B) RURAL YOUTH</b>	0	0	0	0	0	0	0	0
Mushroom Production	2	13	0	13	7	0	7	20
Seed production	2	16	0	16	4	0	4	20
Vermi-culture	1	8	0	8	2	0	2	10
Bio-control	2	13	0	13	7	0	7	20
Nursery Management of Horticulture crops	2	15	0	15	5	0	5	20
Protected cultivation	1	7	0	7	3	0	3	10
Dairying	1	7	0	7	3	0	3	10
Poultry production	1	8	0	8	2	0	2	10
Piggery	1	7	0	7	3	0	3	10
Rural craft	1	0	8	8	0	2	2	10

Value addition	1	0	7	7	0	3	3	10
Nursery Management of Agroforestry crops	2	15	0	15	5	0	5	20
<b>TOTAL</b>	<b>17</b>	<b>102</b>	<b>22</b>	<b>124</b>	<b>38</b>	<b>8</b>	<b>46</b>	<b>170</b>
<b>(C) Extension Personnel</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>G. Total</b>	<b>54</b>	<b>644</b>	<b>84</b>	<b>728</b>	<b>156</b>	<b>26</b>	<b>182</b>	<b>910</b>

## B) OFFCampus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	1	16	0	16	4	0	4	20
IPNM	2	32	0	32	8	0	8	40
Micro irrigation	1	16	0	16	4	0	4	20
Integrated Crop Management	4	70	0	70	10	0	10	80
Water conservation	1	18	0	18	2	0	2	20
Crop residue management	1	18	0	18	2	0	2	20
Fodder production	1	18	0	18	2	0	2	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	5	82	0	82	18	0	18	100
Micro irrigation	1	18	0	18	2	0	0	20
<b>b) Fruits</b>								
Layout and Management of Orchards	1	18	0	18	2	0	2	20
Management of young plants/orchards	2	33	0	33	7	0	7	40
Micro irrigation	1	18	0	18	2	0	0	20
<b>c) Ornamental Plants</b>								
<b>d) Plantation crops</b>								
Production and Management technology	1	18	0	18	2	0	2	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	1	16	0	16	4	0	4	20
Integrated Nutrient Management	2	32	0	32	8	0	8	40
Micro nutrient deficiency in crops	1	15	0	15	5	0	5	20
Nutrient Use Efficiency	3	46	0	46	14	0	14	60
Soil and Water Testing	2	34	0	34	6	0	6	40
<b>IV Livestock Production and Management</b>								
Farming system	1	19	0	19	1	0	1	20
Dairy Management	3	53	0	53	7	0	7	60
Rabbit Management /goat	1	16	0	16	4	0	4	20
Disease Management	1	17	0	17	3	0	3	20
Feed & fodder management	3	52	0	52	8	0	8	60
Poultry management	1	17	0	17	3	0	3	20
<b>V Home Science/Women empowerment</b>								
Household food security	2	0	29	29	0	11	11	40
Design and development of low/minimum cost diet	1	0	16	16	0	4	4	20
Designing and development for high nutrient efficiency diet	2	0	31	31	0	9	9	40
Process & cooking	1	0	18	18	0	2	2	20
Rural craft	1	0	16	16	0	4	4	20
Storage loss minimization techniques	1	0	15	15	0	5	5	20
Value addition	1	0	15	15	0	5	5	20



Women empowerment	1	0	16	16	0	4	4	20
Location specific drudgery reduction technologies	1	0	14	14	0	6	6	20
Women & Child care	1	0	15	15	0	5	5	20
<b>VI Agril. Engineering</b>	0	0	0	0	0	0	0	0
<b>VII Plant Protection</b>								
Integrated Pest Management	5	83	0	83	17	0	17	100
Integrated Disease Management	2	31	0	31	9	0	9	40
Bio-control of pests and diseases	3	49	0	49	11	0	11	60
Seed treatment	1	16	0	16	4	0	4	20
Mushroom production	1	17	0	17	3	0	3	20
<b>VIII Agro-forestry</b>								
Nursery Management	2	34	0	34	06	0	06	40
plantation	4	68	0	68	12	0	12	80
Diversification	2	34	0	34	06	0	06	40
<b>VIV Plant Breeding</b>								
Storage	1	14	0	14	6	0	6	20
Varietal Diversification	2	34	0	34	6	0	6	40
<b>X Production of Inputs at site</b>								
Seed production	6	99	0	99	21	0	21	120
<b>XI Others (Pl. Specify)</b>								
<b>TOTAL</b>	<b>90</b>	<b>1307</b>	<b>185</b>	<b>1492</b>	<b>253</b>	<b>55</b>	<b>304</b>	<b>1800</b>
<b>(B) RURAL YOUTH</b>	0	0	0	0	0	0	0	0
<b>(C) Extension Personnel</b>								
Integrated Pest Management	1	7	0	7	3	0	3	10
Crop residue management	1	6	0	6	4	0	4	10
Bio-control of pests and diseases	1	6	0	6	4	0	4	10
IPNM	2	14	0	14	6	0	6	20
ICM	2	16	0	16	4	0	4	20
Low and high volume of vegetable crop	1	8	0	8	2	0	2	10
Management of orchard	1	8	0	8	2	0	2	10
Nursery management in horticulture crop	1	9	0	9	1	0	1	10
Seed production	3	21	0	21	9	0	9	30
Management in farm animals	2	15	0	15	5	0	5	20
Animal health management	1	5	0	5	5	0	5	10
Production & use of organic input	2	15	0	15	5	0	5	20
Soil & Water Testing	1	5	0	5	5	0	5	10
Kitchen garden	1	0	7	7	0	3	3	10
Women & Child care	1	0	5	5	0	5	5	10
Nursery management in Agro-forestry plants	3	21	0	21	9	0	9	30
<b>TOTAL</b>	<b>27</b>	<b>177</b>	<b>12</b>	<b>189</b>	<b>73</b>	<b>8</b>	<b>81</b>	<b>270</b>
<b>G. Total</b>	<b>117</b>	<b>1484</b>	<b>197</b>	<b>1681</b>	<b>326</b>	<b>63</b>	<b>385</b>	<b>2070</b>

**C) Consolidated table (ON and OFFCampus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
IPNM	3	50	0	50	10	0	10	60
Weed Management	3	49	0	49	11	0	11	60
Cropping Systems	1	16	0	16	4	0	4	20
Integrated Crop Management	7	122	0	122	18	0	18	140
Micro irrigation	1	16	0	16	4	0	4	20
Fodder production	1	18	0	18	2	0	2	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								

Production of low volume and high value crops	8	129	0	129	31	0	31	160
Protected cultivation	1	18	0	18	2	0	2	20
Micro irrigation	1	18	0	18	2	0	2	20
<b>b) Fruits</b>								
Layout and Management of Orchards	1	18	0	18	2	0	2	20
Management of young plants/orchards	2	33	0	33	7	0	7	40
Micro irrigation	1	18	0	18	2	0	2	20
<b>c) Ornamental Plants</b>	0	0	0	0	0	0	0	0
<b>d) Plantation crops</b>	0	0	0	0	0	0	0	0
Production and Management technology	1	18	0	18	2	0	2	20
<b>III Soil Health and Fertility Management</b>								
Nutrient Use Efficiency	1	16	0	16	4	0	4	20
Soil and Water Testing	4	68	0	68	12	0	12	80
Soil fertility management	1	16	0	16	4	0	4	20
Integrated Nutrient Management	2	32	0	32	8	0	8	40
Micro nutrient deficiency in crops	1	15	0	15	5	0	5	20
Nutrient Use Efficiency	3	46	0	46	14	0	14	60
<b>IV Livestock Production and Management</b>								
Farming system	1	19	0	19	1	0	1	20
Dairy Management	5	84	0	84	16	0	16	100
Disease Management	2	34	0	34	6	0	6	40
Rabbit Management /goat	2	33	0	33	7	0	7	40
Feed & fodder management	4	70	0	70	10	0	10	80
Poultry management	1	18	0	18	2	0	2	20
<b>V Home Science/Women empowerment</b>								
Designing and development for high nutrient efficiency diet	3	0	47	47	0	13	13	60
SHG	1	0	17	17	0	3	3	20
Storage loss minimization techniques	2	0	30	30	0	10	10	40
Value addition	2	0	29	29	0	11	11	40
Household food security	2	0	29	29	0	11	11	40
Design and development of low/minimum cost diet	1	0	16	16	0	4	4	20
Process & cooking	1	0	18	18	0	2	2	20
Rural craft	1	0	16	16	0	4	4	20
Women empowerment	1	0	16	16	0	4	4	20
Location specific drudgery reduction technologies	1	0	14	14	0	6	6	20
Women & Child care	1	0	15	15	0	5	5	20
<b>VI Agril. Engineering</b>	0	0	0	0	0	0	0	0
<b>VII Plant Protection</b>								
Integrated Pest Management	9	153	0	153	27	0	27	180
Production of bio control agents and bio pesticides	1	16	0	16	4	0	4	20
Seed treatment	2	33	0	33	7	0	7	40
Integrated Disease Management	2	31	0	31	9	0	9	40
Bio-control of pests and diseases	1	15	0	15	5	0	5	20
Mushroom production	1	17	0	17	3	0	3	20
<b>VIII Plant Breeding</b>								
Varietal diversification	3	51	0	51	9	0	9	60
Storage	1	14	0	14	6	0	6	20
<b>IX Production of Inputs at site</b>								
Seed Production	12	197	0	197	43	0	43	240
<b>X Agroforestry</b>								
Poplar Clone production.	1	16	0	16	4	0	4	20
Plantation Under Agro-forestry	7	148	0	148	32	0	32	180
Nursery Management	2	34	0	34	06	0	06	40
Diversification	2	34	0	34	06	0	06	40
<b>TOTAL</b>	<b>117</b>	<b>1713</b>	<b>247</b>	<b>1960</b>	<b>347</b>	<b>73</b>	<b>416</b>	<b>2380</b>



<b>(B) RURAL YOUTH</b>								
Mushroom Production	2	13	0	13	7	0	7	20
Seed production	2	16	0	16	4	0	4	20
Vermi-culture	2	14	0	14	6	0	6	20
Bio-control	1	7	0	7	3	0	3	10
Nursery Management of Horticulture crops	2	15	0	15	5	0	5	20
Protected cultivation	1	7	0	7	3	0	3	10
Dairying	1	7	0	7	3	0	3	10
Poultry production	1	8	0	8	2	0	2	10
Piggery	1	7	0	7	3	0	3	10
Rural craft	1	0	8	8	0	2	2	10
Value addition	1	0	7	7	0	3	3	10
Nursery management in Agro-forestry plants	3	21	0	21	9	0	9	30
<b>TOTAL</b>	<b>18</b>	<b>108</b>	<b>22</b>	<b>130</b>	<b>42</b>	<b>8</b>	<b>50</b>	<b>180</b>
<b>(C) Extension Personnel</b>								
Integrated Pest Management	2	13	0	13	7	0	7	20
IDM	1	6	0	6	4	0	4	10
IPNM	2	14	0	14	6	0	6	20
ICM	2	16	0	16	4	0	4	20
Low and high volume of vegetable crop	1	8	0	8	2	0	2	10
Management of orchard	1	8	0	8	2	0	2	10
Nursery management in horticulture crop	1	9	0	9	1	0	1	10
Seed production	2	13	0	13	7	0	7	20
Management in farm animals	2	15	0	15	5	0	5	20
Animal health management	1	5	0	5	5	0	5	10
Production & use of organic input	2	15	0	15	5	0	5	20
Soil & Water Testing	1	5	0	5	5	0	5	10
Kitchen garden	1	0	7	7	0	3	3	10
Women & Child care	1	0	5	5	0	5	5	10
Nursery management in Agro-forestry plants	3	21	0	21	9	0	9	30
<b>TOTAL</b>	<b>24</b>	<b>156</b>	<b>12</b>	<b>168</b>	<b>64</b>	<b>8</b>	<b>72</b>	<b>240</b>
<b>G. Total</b>	<b>159</b>	<b>1977</b>	<b>281</b>	<b>2258</b>	<b>453</b>	<b>89</b>	<b>538</b>	<b>2800</b>

### 3.4. Extension Activities (including activities of FLDprogrammes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers interaction	65	475	50	525	50	20	70	525	70	595
Field Day	25	450	0	450	25	0	25	475	0	475
KisanMela	2	1250	150	1400	100	25	125	1350	175	1525
KisanGhoshthi	15	2500	200	2700	250	50	300	2750	250	3000
Exhibition	2	550	100	650	75	25	100	625	125	750
Film Show	25	400	100	500	55	20	75	455	120	575
Farmers Seminar/ Workshop	5	250	50	300	50	10	60	300	60	360
Group meetings	10	350	50	400	50	0	50	400	50	450
Lectures delivered as resource persons	200	3000	250	3250	350	50	400	3350	300	3650
Newspaper coverage	200	-	-	-	-	-	-	-	-	-
Radio talks	100	-	-	-	-	-	-	-	-	-
TV talks	20	-	-	-	-	-	-	-	-	-
Popular articles	15	-	-	-	-	-	-	-	-	-
Extension Literature	15	-	-	-	-	-	-	-	-	-

<b>Advisory Services</b>										
Scientific visit to farmers field	200	350	50	400	50	10	60	400	60	460
Farmers visit to KVK	1000	850	50	900	75	25	100	925	75	1000
Diagnostic visits	200	800	100	900	100	25	125	900	125	1025
Exposure visits	5	150	25	175	25	0	25	175	25	200
Ex-trainees Sammelan	5	150	25	175	25	0	25	175	25	200
Soil health Camp	10	500	50	550	100	50	150	600	100	700
Animal Health Camp	1	200	0	200	50	0	50	250	0	250
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Farm Science Club	2	100	25	125	20	5	25	120	30	150
Conveners meet										
Self Help Group	5	125	25	150	15	5	20			
Conveners meetings								140	30	170
Mahila Mandals	5	125	50	175	20	5	25			
Conveners meetings								145	55	200
Celebration of important days	2	250	50	300	50	10	60	300	60	360
Special day celebration	2	350	100	400	45	15	60	395	115	460
PPVFRA workshop	1	90	10	100	10	0	10	100	10	110
Kisan Diwas	1	250	50	300	40	10	50	290	60	350
<b>Total</b>	<b>2138</b>	<b>13515</b>	<b>1560</b>	<b>12595</b>	<b>1630</b>	<b>360</b>	<b>1990</b>	<b>15145</b>	<b>1920</b>	<b>17015</b>

### 3.5 Target for Production and supply of Technological products SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>CEREALS</b>	Wheat	HD-3086	20.00
		HD-2622	10.00
		<b>Total:</b>	<b>30.00</b>

### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>	Mango	Dushari, Langra & Chausa (Saplings)	1000
	Papaya	Pusa dwarf (Plants)	500
<b>Flowers</b>	Tuberose	Double	500
<b>VEGETABLES</b>	Brinjal	Pant Rituraj/Pant Samrat/Kanshi Sandesh/Latest variety	17,000
	Chilli	KA-2, Pant C-1/ Latest variety	
	Onion	ALR/NHRDF Red-2 (Line-355)	
	Tomato	Kashi amrit	
<b>Commercial</b>	Popular	C-9 & C-10	1000
		<b>Total</b>	<b>20,000</b>

### Bio-products

Sl. No.	Product Name	Species	Quantity
			(kg)

<b>BIO PESTICIDES</b>			
1	Trichoderma	harzianum	300
2	Beauveria	bassiana	300
3	Metarhizium	Anisoplie	100
<b>Total</b>			<b>700</b>

#### Mushroom spawn production

Sl.No.	ProductName	Quantity(kg)
1	White button Mushroom	20
2	Oyster Mushroom	20
<b>Total</b>		<b>40</b>

#### LIVESTOCK :

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Poultry	Broiler & layering	Karaknath&Vanraja	200	-

#### 3.6 Literature to be Developed/Published

##### (A) KVK NewsLetter

Start	:	--
Number of copies to be published	:	for issue (2000)
Krishi Calendar for Farmers	:	for issue (2000)

##### (B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	06
2	Technical reports	22
3	News letters	06
4	Training manual all discipline	07
5	Popular article	15
6	Extension literature	15
7	Krishi Calendar	01
<b>Total</b>		<b>72</b>

##### (C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	KisanMela& Technology week	04

#### 3.7. Success stories/Case studies identified for development as a case. :03

#### 3.8 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women – PRA & focused group discussion.
- Rural Youth – Need based & Focused group discussion.
- In-service personnel – Need based & demand from department.

#### 3.9 Indicate the methodology for identifying OFTs/FLDs :PRA&Surveys

#### 3.10 Field activities

- i. Name of villages identified/adopted with block name (from which year) -  
2022 Rampur Maniharan, Baliakheri, Punwarka, Nakur, Sarsanwa, Naga & Deoband
- ii. No. of farm families selected per village: 50
- iii. No. of survey/PRA conducted: 1 each
- iv. No. of technologies taken to the adopted villages: 20
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological – horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

**3.11. Activities of Soil and Water Testing Laboratory**

Status of establishment of Lab:

1. **Year of establishment:** 2007
2. **List of equipments purchase with amount:** NIL

**3. Targets of samples for analysis:**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	600	521	37	18000.00
Soil samples(Micro)	600	318	16	120,000.00
<b>Total</b>	<b>1200</b>	<b>839</b>	<b>53</b>	<b>138,000.00</b>

**4.0 LINKAGES****4.1 Functional linkage with different organizations**

Sl.No.	Name of organization	Nature of Linkage
1.	Deptt. of Agriculture	Diagnostic survey, training, gosthi/Seminar/ Farmers Fair
2.	Deptt. of Horticulture	Participation in meeting/demonstration/training/ Farmers Fair
3.	Deptt. of Agro-forestry	Participation in meeting/demonstration/training/ Farmers Fair
4.	NGO	Trainings/Gosthi
5.	ATMA	Trainings, Meeting, Demonstration, Validation trial
6.	IFFCO, KRIBHCO	Trainings/Gosthi
7.	PCDF	Trainings/Gosthi
8.	NEDA, PNB (SHGs)	Trainings/Gosthi
9.	Distt. Cooperative Bank	Trainings/Gosthi
10.	Deptt. of Fisheries	Trainings/Gosthi
11.	Deptt. of Bal Vikash Pariojana	Trainings/Gosthi/Seminar
12.	Deptt. of Animal Science	Trainings/Seminar/Animal Exhibition
13.	Bhoomi Sanrakshan Adhikari	Trainings/Gosthi
14.	Dairy Development	Trainings/Gosthi
15.	NABARD	Workshop/Training

**4.2 Details of linkage with ATMA**

a) Is ATMA implemented in your district Yes

S. No.	Programme	No.
1	Kisangosthi	10
2	Training	10
3	Demonstrations	20
4	Field day	05
5	Exposure visits	05
<b>Total:</b>		<b>50</b>

**4.3 Give details of programmes under National Horticultural Mission:**

S. No.	Programme	Nature of linkage
1	NHM	Training

**4.4 Nature of linkage with National Fisheries Development Board : Nil**

S. No.	Programme	Nature of linkage
1	NFDB	Training

**4.5 ARYA Project**

S. No.	Enterprise	No. of participants
1	Mushroom	100
2	Poultry	100

**4.6 Centre of Excellence:**

S. No.	Subject	
1	Mushroom, Mango nursery, Hort., Home Science, Fruit Preservation & Bee	Proposal submitted

Keeping

#### 5.0 Utilization of hostelfacilities

S. No.	Programme	No. of days
1	January 2023	06
2	February 2023	04
3	March 2023	05
4	April 2023	03
5	May 2023	03
6	June 2023	05
7	July 2023	03
8	Aug., 2023	04
9	Sept., 2023	03
10	Oct., 2023	05
11	November 2023	05
12	December 2023	04

#### 6.0 Convergence with departments: Proposed

#### 7.0 Feedback of the farmers about the technologies demonstrated and assessed :Proposed

#### 8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities : proposed

1. **Horticulture:**– Promote different Nursery Technique for fruit and Vegetable plants.

#### 2 **Plant Breeding:** --

- ❖ Develop goodsustainable variety in the case of Paddy, Sugarcane and wheat.
- ❖ Plant Protection – Effective control of seasonal disease and insects in cereals’, Horticultural and Agro forestry plants.
- ❖ Agronomy Effective cultural practices crop variety wise,
- ❖ Animal Husbandry - Good processing and supply chains to remunerate farmer.

**SAP Report (Swachhta Action Plan)**

**January – December 2023**

**Table-I**

**Activity- For Vermi Compost Activity**

Name of KVK	No. of adopted villages (for micro trial based on)	Expenditure
Saharanpur	6	0.00

**Table-II**

Name of KVK	Type of major activity conducted (Excluding vermi compost)	Expenditure
Saharanpur	1. SwachhtaPakhwara 2. Cleaning and optimum disposal ofwastes 3. AwarenessCamps 4. Wall Painting	0.00

**Action Plan for *Kharif 2023*and *Rabi 2023- 24*including demand of seed**

Season	Crop	Area (ha)	Variety	Seed quantity (qt.)
<b>Kharif -2023</b>	Paddy	8.0	PB-1637	1.6
		4.0	PB-1509	0.8
		4.0	PB-1609	0.8
		2.0	Bio fortified variety	0.4
	Black Rice	1.0	As per availability	0.2
	Pigeon pea	2.0	PUSA-16/Richa/Bio fortified variety	0.25
	<b>Total</b>		<b>20.0</b>	
<b>Rabi 2023-24</b>	Wheat	6.0	PBW- 187	6.0
		6.0	DBW-222	6.0
		6.0	DBW-173	7.8
		6.0	HD -3236	7.8
		6.0	DBW- 71( late sown	7.8
		4.0	WB-02 (Bio-fortified)	4.0
	Mustard	4.0	K-1317 Less water & very Good chapati	0.2
<b>Total</b>		<b>38.0</b>		<b>39.6</b>

**Action Plan for *Kharif 2023*and *Rabi 2023- 24*including demand of Plants**

Season	Crop	Area ha	Variety	Seed quantity (qt.)
Horticulture	Papaya		As per availability	50 plants
	Litchi		As per availability	50 plants
	Mango		As per availability	50 plants
	Banana		As per availability	50 plants
	Guava		As per availability	50 plants
	Kinnow		As per availability	50 plants
	Date-Khajoor		As per availability	50 plants
	Mosambi		As per availability	50 plants
	Gladiolus	0.8	As per availabilty	Bulbs
	Bamboo		As per availability	50 plants
	Poplar	0.4	As per availability	100 plants

## Training Programme(January– December, 2023)

## i) Farmers &amp; Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
April, 23	PF	Nutrient management in sugarcane	1	18	0	18	2	0	2	20
May, 23	PF	Integrated crop management of paddy	1	16	0	16	4	0	4	20
June, 23	PF	Water management in paddy	1	17	0	17	3	0	3	20
Sept., 23	PF	Production technology of autumn sugarcane with intercropping	1	16	0	16	4	0	4	20
Nov., 23	PF	Crop residue management through machine	1	16	0	16	4	0	4	20
<b>Horticulture</b>										
Aug.,23	PF	Production technology of Marigold	1	15	0	15	5	0	5	20
Oct., 23	PF	Production technique of onion crop	1	17	0	17	3	0	3	20
Oct., 23	PF	Production technique of Garden Pea	1	15	0	15	5	0	5	20
Nov., 23	PF	Protected cultivation of vegetables crop	1	18	0	18	2	0	2	20
<b>Livestock prod.</b>										
Jan., 23	PF/FW	Reproductive disorders in animals and their management	1	15	0	15	5	0	5	20
June, 23	PF/FW	Feed management in piggery	1	18	0	18	2	0	2	20
Aug., 23	PF	Control of parasites in animals	1	17	0	17	3	0	3	20
Nov., 23	PF/FW	Integration of dairy in IFS module	1	16	0	16	4	0	4	20
<b>Home Science</b>										
Jan., 23	PF	Preservation	1	0	15	15	0	5	5	20
April, 23	PF	Soft toy making	1	0	17	17	0	3	3	20
July, 23	PF	By product of mango	1	0	14	14	0	6	6	20
Oct., 23	PF	Stitching	1	0	18	18	0	2	2	20
<b>Plant Protection</b>										
Feb., 23	PF	Mgt. technique of white grub & termite	1	16	0	16	4	0	4	20
June, 23	PF	Seed treatment through bio- agent	1	17	0	17	3	0	3	20
Aug., 23	PF	Preparation technique of pusa waste decomposer	1	16	0	16	4	0	4	20
Nov.23	PF	IDM technique in wheat	1	18	0	18	2	0	2	20
<b>Soil Health</b>										
Feb., 23	PF	Importance of customized in sugarcane	1	14	0	14	6	0	6	20
June, 23	PF	Soil sample technique & its importance	1	15	0	15	5	0	5	20



Oct., 23	PF	Soil sample technique & its importance	1	18	0	18	2	0	2	20
<b>Plant Breeding</b>										
Feb., 23	PF	Farmers participatory Seed production technique of urd bean	1	17	0	17	3	0	3	20
Feb, 23	PF	Farmers participatory Sugarcane seed production technique	1	14	0	14	6	0	6	20
May, 23	PF	Varietal diversification in paddy crop	1	17	0	17	3	0	3	20
June, 23	PF	Farmers participatory Seed production technique of paddy	1	17	0	17	3	0	3	20
Sept., 23	PF	Farmers participatory Seed production technique of Potato &Vegetable pea.	1	17	0	17	3	0	3	20
Sept., 23	PF	Varietal diversification with trench method in sugarcane crop	1	16	0	16	4	0	4	20
Nov., 23	PF	Farmers participatory Seed production technique of wheat	1	17	0	17	3	0	3	20
<b>Agro-Forestry</b>										
Feb., 23	PF	Suitable plants for enironmntt.	1	17	0	17	3	0	3	20
Feb, 23	PF	Plantation Technology of Agro-forestry plants.	1	14	0	14	6	0	6	20
May, 23	PF	Vegetable production in Agro-forestry plants	1	17	0	17	3	0	3	20
June, 23	PF	Cereal crop production in A.F. systems	1	17	0	17	3	0	3	20
Sept., 23	PF	Different clones of poplar	1	17	0	17	3	0	3	20
Dec., 22	PF	Care during poplar plantattion	1	16	0	16	4	0	4	20

**i) Farmers & Farmwomen (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
Feb.23	PF	Production technology of spring sugarcane	01	18	-	18	2	-	2	20
March 23	PF	IPNM in sugarcane	01	16	-	16	4	-	4	20
April, 23	PF	Fodder production (Hybrid Napier grass )	01	18	-	18	2	-	2	20
June, 23	PF	Production technology of groundnut	01	16	-	16	4	-	4	20
July, 23	PF	Chemical weeds control in rice	01	16	-	16	4	-	4	20
July., 23		Water conservation practices	01	18	-	18	2	-	2	20
Aug., 23	PF	Production technology of Mustard	01	16	-	16	4	-	4	20
Oct.23	PF	In-Situ management in rice-wheat system	01	18	-	18	2	-	2	20
Oct.23	PF	Use of Azotobactor& PSB in timely sown wheat	01	16	-	16	4	-	4	20



Nov.23	PF	Production technology of wheat	01	18	-	18	2	-	2	20
Dec.,23	PF	Water management of mung bean & urdbean	01	16	-	16	4	-	4	20
<b>Horticulture</b>										
Jan., 23	PF	Importance & implementation of micro irrigation system in litchi orchard	1	16	0	16	4	0	4	20
Feb., 23	PF	Production technique of Cucumber	1	17	0	17	3	0	3	20
March, 23	PF	Mgt. of mango orchard	1	18	0	18	2	0	2	
April, 23	PF	Production technique of bottle gourd crop	1	17	0	17	3	0	3	20
May, 23	PF	Production technique of bitter gourd crop	1	18	0	18	2	0	2	20
June, 23	PF	Production technique of kharif season onion	1	16	0	16	4	0	4	20
July, 23	PF	Management of manures & fertilizers in Litchi & Mango Orchard	1	15	0	15	5	0	5	20
Sept., 23	PF	Production technique of potato crop	1	17	0	17	3	0	3	20
Oct., 23	PF	Importance & implementation of micro irrigation system in vegetable crops	1	18	0	18	2	0	2	20
Nov., 23	PF	Production technology of early cucurbits crop	1	17	0	17	3	0	3	20
Dec., 23	PF	Layout & Plantation of Guava & Peach orchard	1	18	0	18	2	0	2	20
<b>Livestock Production.</b>										
March, 23	PF	Animal health management	1	17	0	17	3	0	3	20
April, 23	PF	Layout of IFS	1	16	0	16	4	0	4	20
May, 23	PF	Importance of perennial fodder crops in IFS module	1	17	0	17	3	0	3	20
May, 23	PF	Feed mgt. of dairy calves	1	18	0	18	2	0	2	20
June, 23	PF	Need & importance of micro&micro elements in animals	1	19	0	19	1	0	1	20
July, 23	PF	Poultry management for karaknath	1	17	0	17	3	0	3	20
Sept., 23	PF	Feed management of poultry for broiler production	1	18	0	18	2	0	2	20
Sept., 23	PF	Improve techniques of goatry	1	16	0	16	4	0	4	20
Oct., 23	PF	Importance of UMMB	1	17	0	17	3	0	3	20
Nov., 23	PF	Mgt. of repeat breeder animals	1	18	0	18	2	0	2	20
Dec., 23	PF	Animals heat detection through crystoscope	1	19	0	19	1	0	1	20
<b>Home Sc.</b>										
Jan., 23	PF	Use of drudgery reducing technique	1	0	17	17	0	3	3	20
Feb., 23	PF	Nutritive snack for children	1	0	15	15	0	5	5	20
March, 23	PF	Growing of summer vegetable in kitchen garden	1	0	16	16	0	4	4	20
April, 23	PF	Kitchen garden in rural home	1	0	15	15	0	5	5	20
May, 23	PF	Grain storage	1	0	14	14	0	6	6	20
June, 23	PF	Mango products	1	0	16	16	0	4	4	20

July 23	PF	Protein rich food for family	1	0	17	17	0	3	3	20
Aug., 23	PF	Clean milk & milk products	1	0	15	15	0	5	5	20
Sept., 23	PF	Importance of SHG	1	0	16	16	0	4	4	20
Oct., 23	PF	Identification of adulterants in foods	1	0	16	16	0	4	4	20
Nov., 23	PF	Preservation of rabi vegetables	1	0	15	15	0	5	5	20
Dec., 23	PF	Preparation of anola pickle & candy	1	0	14	14	0	4	4	20
<b>Plant Protection</b>										
Jan., 23	PF	IPM technique in chilli	1	17	0	17	3	0	3	20
March, 23	PF	Fruit fly mgt. through trap in guava	1	17	0	17	3	0	3	20
March, 23	PF	Mgt. of grassy & ratoon stunting disease in sugarcane	1	15	0	15	5	0	5	20
April, 23	PF	Pusa de-composer technique in sugarcane	1	18	0	18	2	0	2	20
May, 23	PF	Use of bio-agent in vegetable	1	16	0	16	4	0	4	20
June, 23	PF	IPM technique in brinjal	1	15	0	15	5	0	5	20
July, 23	PF	Shoot gal maker Insect management in mango	1	16	0	16	4	0	4	20
Sept., 23	PF	IPM technique in pulse crop	1	17	0	17	3	0	3	20
Oct., 23	PF	Seed & soil treatment technique for pest mgt.	1	16	0	16	4	0	4	20
Nov., 23	PF	Mgt. of mango mealy bug in mango	1	17	0	17	3	0	3	20
Dec., 23	PF	Use of bio-insecticide in mustard	1	15	0	15	5	0	5	20
Dec., 23	PF	IPM technique in mushroom	1	18	0	18	2	0	2	20
<b>Soil health</b>										
Jan., 23	PF	Importance of bio-fertilizers	1	12	0	12	8	0	8	20
March, 23	PF	IPNM in zaid crops	1	13	0	13	7	0	7	20
April, 23	PF	Soil sample technique & its importance	1	17	0	17	3	0	3	20
May, 23	PF	IPNM in kharif crops	1	13	0	13	7	0	7	20
July, 23	PF	Use of water soluble fertilizer in paddy crop	1	16	0	16	4	0	4	20
Aug., 23	PF	Macro & micro deficiency symptoms in kharif crops	1	15	0	15	5	0	5	20
Sept., 23	PF	Importance of sulphur in mustard crop	1	14	0	14	6	0	6	20
Nov., 23	PF	Importance of water soluble fertilizer in rabi crop	1	18	0	18	2	0	2	20
Dec., 23	PF	Soil sample technique in crops & orchard field	1	17	0	17	3	0	3	20
<b>Plant Breeding</b>										
Feb., 23	PF	Role of Varietal diversification in sugarcane crop	1	17	0	17	3	0	3	20
Feb., 23	PF	Production technique of summer season maize variety for green cob & green fodder	1	18	0	18	2	0	2	20
Feb., 23	PF	Suitable Varieties in Improved trench method in spring sugarcane	1	15	0	15	5	0	5	20
April, 23	PF	Grading processing & storage technique of different crops seed.	1	14	0	14	6	0	6	20

May, 23	PF	Germination & viability test of seed in different crops.	1	18	0	18	2	0	2	20
June, 23	PF	Production technique of high yielding maize varieties	1	16	0	16	4	0	4	20
Sept., 23	PF	Production technique of insect pest/disease resistant varieties of mustard/toria.	1	17	0	17	3	0	3	20
Oct., 23	PF	Farmers participatory Seed production technique of mustard	1	15	0	15	5	0	5	20
Nov., 23	PF	Role of Varietal diversification in wheat crop	1	17	0	17	3	0	3	20
<b>Agro-Forestry</b>										
Aug., 23	PF	Use of Neem tree with respect to Agriculture.	1	17	0	17	3	0	3	20
Aug., 23	PF	Nursery management of different A.F. plants	1	18	0	18	2	0	2	20
Sept., 23	PF	Pruning of agro-forestry plants.	1	15	0	15	5	0	5	20
Oct., 23	PF	Plantation of A.F.plants in different conditions.	1	14	0	14	6	0	6	20
Dec, 23	PF	Seed production and collection of different A.F. plants.	1	18	0	18	2	0	2	20
Jan, 23	PF	Insect control in Agro-forestry plants.	1	16	0	16	4	0	4	20
Feb., 23	PF	Suitable plants for Agroforestry.	1	17	0	17	3	0	3	20
March., 23	PF	Medicinal use of Agro-forestry plants	1	15	0	15	5	0	5	20

## ii) Vocational training programmes for RuralYouth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Vermi compost	Promoting vermi compost production for income generation	Production technique of quality vermi compost	Aug., 23	5	8	0	8	2	0	2	10
Compost	Promoting Pusa de-composer	Preparation and uses of pusa de-composer	Feb., 23	5	6	0	6	4	0	4	10
Bio-agent	Promotion of bio-agent	Use of bio-agents in agriculture	May, 23	5	7	0	7	3	0	3	10
Mushroom	Promoting mushroom production for income generation	Mushroom production technique	Sept., 23	5	8	0	8	2	0	2	10
Mushroom	-do-	Mushroom production technique	Nov., 23	5	5	0	5	5	0	5	10

Seed production	Seed production	Scientific Seed production of wheat	Nov., 23	5	8	0	8	2	0	2	10
Seed production	Seed production	Scientific Seed production of sugarcane	Feb., 23	5	8	0	8	2	0	2	10
Protected cultivation	Protected cultivation	Protected cultivation of flower & vegetable crops	April, 23	5	7	0	7	3	0	3	10
Cauliflower, Cabbage, Chilli, Brinjal, Tomato & Papaya	Nursery raising	Nursery raising in vegetables crop	Sept., 23	5	9	0	9	1	0	1	10
Mango, Litchi & Guava	Nursery management	Nursery management of horticulture crops	Feb., 23	5	7	0	7	3	0	3	10
Poultry	Poultry	Broiler production	Aug., 23	5	8	0	8	2	0	2	10
Piggery	Entrepreneurship	Piggery unit establishment	Nov., 23	5	7	0	7	3	0	3	10
Dairy	Disease mgt.	Preparation of UMMB	Feb., 23	5	7	0	7	3	0	3	10
Fruit & Vegetables	Value addition	Fruit & vegetables preparation	July, 23	5	0	7	7	0	3	3	10
Textile	Rural craft	Cutting & stitching	Nov., 23	5	0	8	8	0	2	2	10
Agro-forestry	How to make good nursery of neem, samal & sagon	Nuserytechnique	June 23	5	5	0	5	5	0	5	10
Agro-forestry	How to make good nursery of Poplar & Bakayan	Nuserytechnique	Dec.23	5	5	0	5	5	0	5	10

### iii) Training programme for extensionfunctionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participant s			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Off Campus</b>										
Feb., 23	EF	Scientific Seed production technology of sugarcane	1	8	0	8	2	0	2	10
April., 23	EF	IPNM in sugarcane	1	7	0	7	3	0	3	10
June, 23	EF	Crop residue management techniques	1	6	0	6	4	0	4	10
Sept., 23	EF	Production technique of mustard	1	8	0	8	2	0	2	10
Oct., 23	EF	Production technique of wheat crops	1	6	0	6	4	0	4	10
April, 23	EF	Management of white grub in sugarcane	1	7	0	7	3	0	3	10
Aug., 23	EF	B.P.H. insect mgt. in paddy	1	6	0	6	4	0	4	10
Feb., 24	EF	Pusa de-composer management	1	6	0	6	4	0	4	10
July, 23	EF	Layout & plantation of mango, litchi & guava crops	1	8	0	8	2	0	2	10
Nov, 23	EF	Rejuvenation of mango orchard	1	7	0	7	3	0	3	10

Jan, 24	EF	Nursery raising of cucurbits in poly pouch.	1	9	0	9	1	0	1	10
April., 23	EF	Importance of green manuring for soil health	1	7	0	7	3	0	3	10
Aug., 23	EF	Analysis of soil samples & its importance	1	5	0	5	5	0	5	10
Oct., 23	EF	Importance of organic manure	1	8	0	8	2	0	2	10
May, 23	EF	Scientific Seed production technology of basmati paddy	1	7	0	7	3	0	3	10
Nov., 23	EF	Scientific Seed production technology of basmati wheat	1	7	0	7	3	0	3	10
Feb., 23	EF	Balance diet	1	0	5	5	0	5	5	10
April, 23	EF	Innovative techniques of animals science	1	7	0	7	3	0	3	10
July, 23	EF	Deworming schedule in milch animals	1	6	0	6	4	0	4	10
Oct., 23	EF	Vaccination schedule in milch animals	1	7	0	7	3	0	3	10
Sept., 23	EF	Value of kitchen garden	1	0	7	7	0	3	3	10
July-23	EF	Nursery management of A.F. Plants.	1	0	7	7	0	3	3	10
Agust-23	EF	Plantation technology of A.F. Plants.	1	0	7	7	0	3	3	10
Sept-23	EF	Pruning of new A.F. Plants	1	0	7	7	0	3	3	10

#### iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
Vermicompost producer	UP Govt.	RY	Skill Development Training programme	1	10	4	14	6	0	6	20
Organic farming	UP Govt.	RY	Skill Development Training programme	1	15	0	16	4	0	4	20
Dairy farming	UP Govt.	RY	Skill Development Training programme	1	17	0	17	3	0	3	20
Integrated farming system	UP Govt.	PF	Farmer Technique Training	4	140	10	150	45	5	5	200
Soil & Water management	UP Govt.	PF	Natural resource conservation	4	135	15	150	40	10	50	200
Horticulture	Deptt. Of Hort.	PF	Prod. Tech. of Hort. Crops	4	65	10	75	20	5	25	100
<b>Total</b>				<b>15</b>	<b>382</b>	<b>39</b>	<b>421</b>	<b>118</b>	<b>20</b>	<b>93</b>	<b>514</b>



# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA SAMBHAL**

# ACTION PLAN

(Jan., 2023 to Dec., 2023)

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E-mail	Website
	Office	Fax		
Krishi Vigyan Kendra Sambhal (U.P.) -	-	-	sambhalkvk@gmail.com	

### 1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E-mail	Website
	Office	FAX		
Director of Extension S.V.B.P.U. & T. Meerut (U.P.) - 250110	0121- 2411511	0121- 2411511	deesvpuat2014@gmail.com	www.svbpm Meerut.ac.in

1.2.b. Status of KVK website : Yes/No - Yes

1.2. c. No. of Visitors (Hits) to your KVK website (as on today) : -





1.2.d. Status of ICT Lab at your KVK : No

### 1.3. Name of the Sr. Scientist & Head/OIC with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. Mahavir Singh	-	9457826151	sambhalkvk@gmail.com

1.4. Year of sanction: 2018

### 1.5. Staff Position (as on 31<sup>th</sup> August. 2022)

1. No.	Sanctioned post	Name of the Incumbent	Designation	Discipline	Pay scale (Rs.)	Grade pay	Present Basic	Date of Joining	Permanent / Temporary	Category	Mobile No.	Email id	Please attach recent photograph
1.	Sr. Scientist & Head	Dr. Mahavir Singh	SMS/ Asst. Prof.	Agronomy	15600 - 39100	7000	25980 + 7000	21-06-2008	Permanent	SC	+91-9457826151	<a href="mailto:mahavirsre@gmail.com">mahavirsre@gmail.com</a>	
2.	Subject Matter Specialist	Dr. Arvind kumar	SMS/ Asst. Prof.	Plant protection	15600 - 39100	7000	26840 + 7000	23-06-2008	Permanent	Gen.	+91-9412170753	<a href="mailto:tharvind@gmail.com">tharvind@gmail.com</a>	
3.	Subject Matter Specialist	Mr. Pankaj	SMS/T-6	Livestock Production	15600 - 39100	5400	56100	04.07-2022	Permanent	SC	9838196310	<a href="mailto:Pankajkumar.8108@gmail.com">Pankajkumar.8108@gmail.com</a>	
4.	Subject Matter Specialist	Jyoti Swaroop	SMS/T-6	Horticulture	15600 - 39100	5400	56100	05-07-2022	Permanent	EWS	9335692231	<a href="mailto:Trivedi0452006609@gmail.com">Trivedi0452006609@gmail.com</a>	
5.	Farm Manager	Dr. Devendra pal Singh	Farm Manager	Agronomy	9300-34800		49000	31-07-2008	Permanent	OBC	941106296		
6.	Accountant / Superintendent	Sri. Sanjay Kumar Sharma	Accountant / Superintendent	Accounts	9300-34800	-	62200	18-09-2000	Permanent	OBC	+91-9412650468	<a href="mailto:sksharmakvk@gmail.com">sksharmakvk@gmail.com</a>	
7.	Stenographer/ computer operator	Sh. Prakash Narayan Pal	Steno/Computer Operator	Steno	9300-34800	-	53600	14-09-2000	Permanent	OBC	8081144575	Prakashpal35@gmail.com	
8.	Supporting staff	Amar Singh	Village Attendant	Attendant	5200-20200		32300		Permanent	OBC			



**1.6. Total land with KVK (in ha): 12.0**

**1.7 Priority/ Thrust Areas**

S.N.	Crop/ Enterprise	Thrust area
1.	Rice/Wheat	Integrated plant nutrient management in rice -wheat cropping.
2.	Rice/Wheat	Integrated weed management in rice -wheat cropping
3.	Cereals/Pulses/ Oil seeds	IPNM &IPM in pulses & oil seed crops,
4.	Cereals/Pulses/ Oil seeds	Promotion of new released varieties.
5.	Seed production	Promotion of seed production in different crops.
6.	Vegetables	Promotion of organic farming in vegetables.
7.	Bee-keeping	Popularization of Bee-keeping
8.	Vermi compost	Popularization of Vermi composting
9.	Horticultural crops	INM,IPM,IDM,IWM
10.	Live stock	Balance feed, IDM

**1.8 DETAILS OF DISTRICT -**

**Major farming systems/enterprises (based on the analysis made by the KVK)**

S.N.	Farming system/enterprise
1.	<b>Major crops</b> – Paddy/Maize/ Bajra, Wheat, Mustard, Sugarcane, Mentha, Lentil, Potato.
2.	<b>Crop rotation</b> – Rice- Wheat, Rice-Sugarcane, , Urd-Mustard-Mentha, Bajra-Mustard-Mentha, Urd-Wheat
3.	Agriculture + Hort. + Livestock
4.	Agri. + Livestock
5.	Landless + Livestock

**1.9Description of Agro-climatic Zone & major agro ecological situations  
(Based on soil and topography)**

S. No.	AES	Characteristics of A.E.S.	Major commodities	Farming system	Block
1	I- Mid western plain zone of the district	-Sandy,Sandy Loam with medium fertility - medium rainfall	wheat, mentha, sugarcane, chilli, cauliflower, tomato, cabbage, guava, buffalo, cows,Goat.	wheat+Mentha sugarcane,Urd-Wheat, A.H. (Cow, buffalo, Goat.)	,Pawasa, Gunour, Junawai, Rajpura
2	II. Mid western plain zone of the district	-Sandy loam to loam, clay loam soil of medium fertility - medium rainfall	Rice, wheat, mentha, sugarcane, mustard as well as vegetables (pea, cucumber, , tomato, potato) and mango fruit, buffalo, cows	Paddy, wheat, potato, sugarcane, mentha, mustard based systems + horticulture + A.H.	Baniyakhera, Bahjoi, Sambhal,Asmoli

### 1.10 Soil type

S.No.	Soil type	Area (ha)
1	Clay loam	64571.00
2	Sandy soil	125478.00
3	Sandy loam	45871.00
4	Loam	12000.00
	<b>Total</b>	<b>247920.00</b>

### 1.11 Area, Production and Productivity of major crops cultivated crops in the district ( 2020 -2021)

S. No	Crop	Area (000ha)	Production (000MT)	Productivity (Qtl /ha)
<b>A</b>	<b>FIELD CROPS INCLUDING OIL SEEDS AND PULSES</b>			
1.	Wheat	139.858	564.047	40.33
2.	Lentil	0.999	0.800	8.00
3.	Mustard	13.412	19.659	14.66
4.	Paddy (Rice)	38.227	98.052	25.65
5.	Bajra	78.777	121.463	15.42
6.	Urd	6.928	6.221	8.98
7.	Maize	3.699	9.022	24.39
8.	Ground nut	0.006	0.006	9.94
9.	Pea	0.162	0.166	1023
10.	Till	0.634	0.143	2.26

## 2 .TECHNICAL PROGRAMME

### 2. A. Details of targeted mandatory activities by KVK during 2023

OFT		FLDs Other than			
No. of OFTs	No. of Farmers	Crops		Livestock	
		Area (ha)/N0	No. of Farmers	No. of unit	No. of Farmers
12	73	20/30	animal 120	20	20
<b>CFLDs(Oilseed &amp; Pulses under NFSM)</b>					
Pulses (Urdbean)	Kharif	10	25		
Oilseed (Mustard)	Rabi	10	25		
<b>Training</b>		<b>Extension Activities</b>			
No. of Courses	No. of Participants	No. of activities		No. of participants	
205	3400	350		10000	

Seed Production (Qtl.)	Planting material (Nos.)	
	Vegetables	Hybrid Napier
200	10000	2000

## B. Details of On Farm Trial:

### OFT- 1 Efficacy assessment of herbicide in sugarcane crop.

#### Sugar cane crop (Season - Spring 2023)

Particulars	Contents
<b>Title</b>	<b>Efficacy assessment of herbicide in sugarcane crop</b>
<b>Problem diagnosed</b>	Low yield of sugarcane due to weed population.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Inter culture (Two weeding) T <sub>2</sub> : Halosulfuron Methyl 75% WDG
<b>No. of farmers</b>	04
<b>Replications</b>	04
<b>Critical inputs</b>	Halosulfuron Methyl 75% WDG
<b>Production system</b>	Paddy- Sugarcane- wheat
<b>Source of technology</b>	SVPUAT,Meerut
<b>Total Cost</b>	Rs. 10000/- approx.
<b>Observation to be recorded</b>	i. No.of mil/able cane ii. Yield q/ha. iii No. of weed/m <sup>2</sup> iv. Economics
<b>Name of Scientist</b>	Dr. Mahavir Singh, SMS/Assit. Prof. (Agronomy)

### OFT- 2 Inter cropping Sugar cane+ Potato

#### Sugar cane crop (Season - Autumn 2023)

Particulars	Contents
<b>Title</b>	<b>Inter cropping Sugar cane+ Potato</b>
<b>Problem diagnosed</b>	Low Income of sugarcane alone crop production
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Alone crop production T <sub>2</sub> : Inter cropping (sugarcane + Potato)
<b>No. of farmers</b>	04
<b>Replications</b>	04
<b>Critical inputs</b>	Seed- Potato
<b>Production system</b>	Rice -Sugarcane–Wheat
<b>Source of technology</b>	SVPUAT,Meerut
<b>Total Cost</b>	Rs. 10000/- approx.
<b>Observation to be recorded</b>	i. No.of mil/able cane ii. Yield q/ha.(S.Cane, Potato) iii. Economics
<b>Name of Scientist</b>	Dr. Mahavir Singh, SMS/Assit. Prof. (Agronomy)

**OFT- 3 INTEGRATED PEST MANAGEMENT****Mentha crop (Season – Zaid 2023)**

Particulars	Contents
<b>Title</b>	Control of leaf eating caterpillars in mentha
<b>Problem diagnosed</b>	Low yield of mentha oil due to infestation of Leaf eating caterpillars in the farmers field
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Use of Monocrotophos 36 SL @ 1.5 lit/ha.) T <sub>2</sub> : Use of Chlorantraniliprole 10%+Lambda Cyhalothrin 5% ZC @ 250 ml/ha.
<b>No. of farmers</b>	04
<b>Replications</b>	04
<b>Critical inputs</b>	Chlorantraniliprole 10%+Lambda Cyhalothrin 5% ZC - 400 ml
<b>Production system</b>	Toria – Mentha
<b>Source of technology</b>	SVPUA&T, Meerut
<b>Total Cost</b>	Rs. 3500/- approx.
<b>Observation to be recorded</b>	i. Infestation of insect % ii. Yield q/ha. iii. Economics
<b>Name of Scientist</b>	Dr. Arvind Kumar, SMS/Assit. Pof. (Plant Protection)

**OFT- 4 INTEGRATED PEST MANAGEMENT****Paddy crop (Season - Kharif 2023)**

Particulars	Contents
<b>Title</b>	Control of brown plant hopper in paddy
<b>Problem diagnosed</b>	Low yield of paddy due to infestation of brown plant hopper in the farmers field.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (use of Imidacloprid 17.8SL Two spray @ 250ml/ha) T <sub>2</sub> : Use of Dinotefuran20 SG@ 200 g/ha.Two spray
<b>No. of farmers</b>	05
<b>Replications</b>	05
<b>Critical inputs</b>	Dinotefuran20 SG-400gm
<b>Production system</b>	Wheat-Paddy
<b>Source of technology</b>	SVPUAT,Meerut
<b>Total Cost</b>	Rs. 2500/- approx.
<b>Observation to be recorded</b>	i. Infestation of insect % ii. Yield q/ha. iii. Economics
<b>Name of Scientist</b>	Dr. Arvind Kumar, SMS/Assit. Prof. (Plant protection)

**OFT-5 DAIRY NUTRIENT MANAGEMENT****Buffalo (Season - Rabi 2023)**

Particulars	Contents
<b>Title</b>	Evaluation of conventional and <b>Bye-pass feed</b> in Buffalo.
<b>Problem diagnosed</b>	Low milk yield and income due to conventional ration feeding
<b>Micro farming situation</b>	Mixed farming
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Conventional feed Use of choker and cakes) T <sub>2</sub> : Use of Bye-pass feed @ 4 kg/day/animal
<b>No. of farmers/Animals</b>	10/10
<b>Duration</b>	120days
<b>Critical inputs</b>	Bye-pass animal feed
<b>Source of technology</b>	IVRI, Izatnagar , Bareilly/NDRI, Karnal
<b>Total Cost</b>	Rs. 12000/- approx.
<b>Observation to be recorded</b>	i. Onset of estrous period ii. Milk yield iii. Concentrate saving iv. C:B ratio

**OFT-6DAIRY NUTRIENT MANAGEMENT****Buffalo (Season - Kharif 2023)**

Particulars	Contents
<b>Title</b>	<b>Evaluation of different feed supplement to check the infertility in milch</b> Buffalo.
<b>Problem diagnosed</b>	Infertility
<b>Micro farming situation</b>	Crop production and animal husbandry.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (Chokar+ salt) T <sub>2</sub> : Dewormer + Mineral mixture @40g/day/animal
<b>No. of farmers/Animals</b>	10/10
<b>Duration</b>	90days
<b>Critical inputs</b>	Dewormer , Mineral mixture
<b>Source of technology</b>	IVRI, Izatnagar , Bareilly
<b>Total Cost</b>	Rs. 8000/- approx.
<b>Observation to be recorded</b>	i. Annual calving ii. Milk production iii. C:B ratio

**OFT-7**

Particulars	Contents
<b>Title</b>	Introduction of tuber crops special reference with elephant foot yam
<b>Problem diagnosed</b>	Farmers are growing broadly kandu
<b>Micro farming situation</b>	Irrigated
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmer practice (cultivation of kandu) T <sub>2</sub> : Growing Elephant Foot Yam
<b>No. of farmers</b>	04
<b>Replications</b>	04
<b>Critical inputs</b>	Tubers of Elephant Foot Yam
<b>Production system</b>	Kandu/ Cole crops-cucumbar
<b>Source of technology</b>	SVPUA&T, Meerut
<b>Total Cost</b>	10000/-
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>• Size &amp;Wt.of tuber</li> <li>• Yield (q/ha), Cost : Net profit &amp; C:B ratio</li> </ul>
<b>Reaction of the farmers</b>	<ul style="list-style-type: none"> <li>• Adoption &amp; Cost</li> </ul>

**OFT- 8 Inter cropping Sugar cane+ Garlic****Sugar cane crop (Season - Autumn 2022)**

Particulars	Contents
<b>Title</b>	<b>Introduction of tissue culture of Banana (G-9)</b>
<b>Problem diagnosed</b>	Low Production and Income of local variety of Banana
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Local Banana cultivation T <sub>2</sub> : <b>Cultivation of tissue culture Banana (G-9)</b>
<b>No. of farmers</b>	04
<b>Replications</b>	04
<b>Critical inputs</b>	Tissue culture plant
<b>Production system</b>	Urd –Sugarcane
<b>Source of technology</b>	SVPUAT, Meerut
<b>Total Cost</b>	Rs. 10000/- approx.
<b>Observation to be recorded</b>	i. No.of fruits/ bunches, Size&wt. of bunches ii. Yield q/ha. iii. Economics

**OFT-9 INTEGRATED NUTRIENT MANAGEMENT****Paddy crop (Season - Kharif - 2023)**

Particulars	Contents
<b>Title</b>	Assessment of nutrient in paddy crop on the basis of soil test.
<b>Problem diagnosed</b>	Low productivity of paddy due to imbalance use of fertilizers.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (120:60:40:20) T <sub>2</sub> : Nutrient management on the basis of soil test.
<b>No. of farmers</b>	04
<b>Replications</b>	04
<b>Critical inputs</b>	FeSo <sub>4</sub> (Ferrous sulfate) @ 20 Kg/ha.
<b>Production system</b>	Rice –Wheat
<b>Source of technology</b>	SVPUA&T, Meerut
<b>Total Cost</b>	Rs. 5000/- approx.
<b>Observation to be recorded</b>	i. Effective tillers per meter row length. ii. 1000 grain weight (g) iii. No. of grain/ear. iv. No. of tillar/hill v. C:B ratio vi. Yield (q/ha)

**OFT-10 INTEGRATED NUTRIENT MANAGEMENT****Wheat crop (Season - Rabi 2023)**

Particulars	Contents
<b>Title</b>	Assessment of nutrient in wheat crop on the basis of soil test.
<b>Problem diagnosed</b>	Low productivity of wheat due to imbalance use of fertilizers.
<b>Micro farming situation</b>	Irrigated condition.
<b>Details of technology identified for solution</b>	T <sub>1</sub> : Farmers practice (150:75:40) T <sub>2</sub> : Fertilizer application on the basis of soil test.
<b>No. of farmers</b>	04
<b>Replications</b>	04
<b>Critical inputs</b>	Zinc sulfate 25% @ 25 Kg/ha.
<b>Production system</b>	Rice –Wheat
<b>Source of technology</b>	SVPUA&T, Meerut
<b>Total Cost</b>	Rs. 2000/- approx.
<b>Observation to be recorded</b>	i. Effective tillers per meter row length. ii. 1000 grain weight (g) iii. No. of grain/ear. iv. C:B ratio v. Yield (q/ha)

**OFT – 11 Drudgery reduction**

<b>Crop/Enterprise</b>	Groundnut
<b>Title</b>	Drudgery reduction in picking of groundnut
<b>Problem diagnosed</b>	Manual picking (Labour intensive)
<b>Farming situation</b>	Irrigated
<b>Thematic area</b>	Drudgery reduction
<b>Farmer's Practice</b>	Manual picking
<b>Possible solutions to be compared</b>	
<b>Treatment 1</b>	Manual picking
<b>Treatment 2</b>	Use of groundnut striper
<b>No. of farmers</b>	10
<b>Plot Size</b>	100 m <sup>2</sup>
<b>Critical Input</b>	Striper
<b>Performance indicators</b>	<ul style="list-style-type: none"> <li>▪ Cost of harvesting/qt.</li> <li>▪ Economics</li> <li>▪ B:C ratio</li> </ul>
<b>Cost of each intervention</b>	Rs 3000/-

**OFT – 12 Drudgery reduction**

<b>Crop/Enterprise</b>	Mango/ Aonla
<b>Title</b>	Post harvest management of mango/ Aonla
<b>Problem diagnosed</b>	Wastage of fruits due to lack of Post harvest management
<b>Farming situation</b>	Irrigated
<b>Thematic area</b>	Post harvest management
<b>Possible solutions to be compared</b>	
<b>Treatment 1</b>	No grading & packing
<b>Treatment 2</b>	Proper grading & packing in crates
<b>No. of farmers</b>	10
<b>Plot Size</b>	100 m <sup>2</sup>
<b>Critical Input</b>	Packing maerials
<b>Performance indicators</b>	<ul style="list-style-type: none"> <li>▪ Cost of packing/qt</li> <li>▪ Economics</li> <li>▪ B:C ratio</li> </ul>
<b>Cost of each intervention</b>	Rs 4000/-



## **2 Frontline Demonstrations**

### **2.1 CFLD on Oil seeds & Pulses under NFSM Project**

#### **A. Oil Seeds:**

#### **Mustard**

<b>Crop</b>	<b>Variety</b>	<b>Thematic area</b>	<b>Technology Demonstrated</b>	<b>Critical input</b>	<b>Season and year</b>	<b>Area ( ha)</b>	<b>No. of farmers</b>	<b>Parameter identified</b>
Mustard	J-31 (Giriraj) /RH-749/ other variety	Integrated crop management	To demonstrate the HYV of mustard Weed, Nutrient & Pest management	<ul style="list-style-type: none"> <li>- Seed</li> <li>- Pendimethalin 30 EC</li> <li>- Water soluble fertilizer(18:18:18) @ 5 Kg/ha.</li> <li>- Sulphur application @ 25 kg/ha</li> <li>- Imidacloprid 17.8SL @ 250 lit/ha.</li> <li>- Mencozeb75% WP @ 2.0 Kg/ha.</li> <li>- Budget required Rs. 75,000/-</li> </ul>	Rabi 2023-24	10.0	25	<ul style="list-style-type: none"> <li>- Yield (q/ha.)</li> <li>- B:C ratio</li> </ul>

#### **Extension and Training Activities**

<b>S.No.</b>	<b>Activity</b>	<b>No. of activities</b>	<b>Month</b>	<b>No. of participation</b>
1	Field days	01	Dec..2023	25
2	Farmers training	02	Sep./Oct.2023	25
3	Media coverage	02	-	Mass
4	Training for extension functionaries	01	Oct..2023	10

## B. Pulses

### Black Gram

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Urd	PU-31/ As per availability	Integrated crop management	To demonstrate the HYV of Urd Weed, Nutrient &Pest management	- Seed - Imezethapyr 10 SL - Water soluble fertilizer(18:18:18) @ 5 Kg/ha. - Sulphur application @ 25 kg/ha - Imidacloprid 17.8SL @ 250 lit/ha. - Mencozeb75% WP @ 2.0 Kg/ha. - Budget required Rs. 75,000/-	<i>Kharif</i> 2023	10.0	25	- Yield (q/ha.) - B:C ratio

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Oct.2023	25
2	Farmers training	02	July/Aug..2023	25
3	Media coverage	02	-	Mass
4	Training for extension functionaries	01	July..2023	10

### Sponsored Demonstration C-FLDs under NFSM

S.No.	Crop	Area (ha)	No. of farmers
1	Urd Kharif 2023	10	25
2	Mustard (Rabi 2023-24)	10	25
<b>TOTAL</b>		<b>10.0 haPulses &amp;10.0ha Oilseed</b>	<b>50</b>

## 2.2 FLD Other than oil seeds & Pulses

### FLD No. - 01

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Paddy	PB-1692	Weed management	Weed control through post emergence herbicide Bispyribac Sodium 10%)-1.0 lit.	Bispyribac Sodium 10%)-1.0 lit. Cost-Rs-7000/-	Kharif 2023	4.0	10	-No.of weeds/m <sup>2</sup> -yield q./ha Economics

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Oct. 2023	25
2	Media coverage	01	-	Mass

### FLD No. - 02

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	DBW-187	Weed management	Weed control through post emergence herbicide Clodinofof15% WP + Metsulfuron20% WP	Clodinofof15% WP- 1.6kg Metsulfuron20% WP- 80gm Cost-Rs8000/-	Rabi- 2023- 24	4.0	10	-No. of weeds/m <sup>2</sup> -yield q./ha Economics

### Extension and Training Activities

S. No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Dec. 2023	25
2	Media coverage	01	-	Mass

**FLD No. - 03**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Paddy	Hybrid/Basmati	- Integrated disease management	Sheet blight disease Control through Azoxystrobin 18.2% + Defenoconazol 11.14% SC @ 500ml/ha	Azoxystrobin 18.2% + Defenoconazol 11.14% SC - Total 2.0 lit - Total Cost Rs 8000/-	<i>Kharif</i> 2023	4.0	10	- Disease incidence% - Yield(q/ha) - Economics

**Extension and Training Activities**

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Sept/Oct 2023	25
2	Media coverage	01	-	Mass

**FLD No. - 04**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Paddy	Hybrid/Basmati	- Integrated Pest management	- Control of stem borer in paddy through Chlorantraniliprole 0.4G @ 10kg./ha.	- Chlorantraniliprole 0.4G -40kg - Total Cost Rs. 8000/-	Khariif 2023	4.0	10	- Insect infestation% - Yield(q/ha) - Economics

### Extension and Training Activities

S.No.	Activity	No. of activities	Month	No. of participation
1	Field days	01	Sept. - Oct.2023	25
2	Media coverage	01	-	Mass

### FLD No. – 5

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Paddy	PB - 1509	INM	- Nutrient management through water soluble fertilizers (18:18:18) N:P:K in paddy @ 12.5 Kg/ha	18:18:18 N:P:K - 12.5 Kg/ha. @ Rs. 100/ kg. Cost – 1250/- ha. Total cost – Rs. 7000/-	Kharif 2023	4.0	10	- Tillers/m <sup>2</sup> - No. of grains/spike - 1000 gm grain weight - Grain yield q/ha. - Economics

### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	September 2023	20
2	Farmers training	01	May/June 2023	20
3	Media coverage	02	-	Mass

**FLD No. – 6**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Wheat	DBW-187	INM	- Nutrient management through water soluble fertilizers (18:18:18) N:P:K in wheat @ 12.5 Kg/ha	18:18:18 N:P:K - 12.5 Kg/ha. @ Rs. 100/ kg. Cost – 1250/- ha. Total cost – Rs. 7000/-	Rabi 2023-24	4.0	10	- Tillers/m <sup>2</sup> - No. of grains/spike - 1000 gm grain weight - Grain yield q/ha. - Economics

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Feb. 2024	20
2	Farmers training	01	Nov.2023	20
3	Media coverage	02	-	Mass

**FLD No. – 7**

Crop /Enterprise	Variety /Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	Area/No	No. of farmers	Parameter identified
Buffalo	Murrah	Nutrition	Treatment of wheat straw through urea	Wheat straw – 1000kg Urea-80kg Total cost-6000	Rabi 2023	10	10	Milk yield kg/day Concentrate saving B:C ratio

### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	oct. 2023	20
2	Farmers training	01	Nov.2023	20
3	Media coverage	02	-	Mass

### FLD No. – 8

Crop /Enterprise	Variety /Breed	Thematic area	Technology Demonstrated	Critical input	Season and year	Area/no	No. of farmers	Parameter identified
Buffalo calf	Murrah	Control Mortality rate	Control Mortality rate through Albendazole syrup 30ml/calf and livol powder 100g/calf	Albendazole syrup-300ml livol powder -1kg Total cost-5000	Rabi 2023	10	10	Mortality rate

### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	July. 2022	20
2	Farmers training	01	Sep..2022	20
3	Media coverage	02	-	Mass

### FLD No. – 9

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area ( ha)	No. of farmers	Parameter identified
Tomato	Pusa Rubi/others	Varietal	Evaluation of new variety of tomato	Seed-500 Total cost – Rs. 5000/-	Rabi 2023	1.0	10	- No. of fruit/plant - Weight/Fruit - Fruit yield q/ha. - Economics

### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	oct. 2023	20
2	Farmers training	01	Nov.2023	20
3	Media coverage	02	-	Mass

### FLD No. – 10

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Chilli	Pusa Jwala/others	Varietal	Evaluation of new variety of Chili	Seed-400 Total cost – Rs. 4000/-	kharif 2023	1.0	10	- No. of Chili/plant -Fruit yield q/ha. - Economics

### Extension and Training Activities

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Sep.. 2023	20
2	Farmers training	01	Oct.2023	20
3	Media coverage	02	-	Mass

### FLD No. – 11

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area/No	No. of farmers	Parameter identified
Mango	Ramkela	Post harvest technology	Mango pickles making through the use of salt ; Species, Oil , preservatives	Salt -1kg Species-300gOil-2.5lit. preservatives-KMS-100 Total cost – Rs. 5000/-	Kharif 2023	10	10	Self life of pickles Economics B;C ratio



**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Oct. 2023	20
2	Farmers training	01	Nov.2023	20
3	Media coverage	02	-	Mass

**FLD No. – 12****Kitchen Gardening**

Crop	Variety	Thematic area	Technology Demonstrated	Critical input	Season and year	Area (ha)	No. of farmers	Parameter identified
Different vegetables	Improved variety of seasonal vegetables	Household food security	Growing all seasonal vegetables and cucurbits	Seed-400 Total cost – Rs. 4000/-	Rabi 2023	1.0	10	-yield q/ha. - Economics B;C ratio

**Extension and Training Activities**

Sl. No.	Activity	No. of activities	Month	No. of participation
1	Field Day	01	Oct. 2023	20
2	Farmers training	01	Nov.2023	20
3	Media coverage	02	-	Mass

## 2.3 SUMMARY OF TRAINING PROGRAMME

### A. ON Campus Trainings:

Subject	Practicing Farmer				Rural Youths			
	On Campus				On Campus			
	I	II	III	IV	I	II	III	IV
Crop Production	4	5	2	4	1	1	1	1
Plant protection	4	3	5	3	1	-	-	1
Soil Science	2	2	2	2	1	-	1	-
Live Stock Production.	4	3	4	4	1	1	-	-
Home Science	3	2	2	1	-	-	1	1
Horticulture	2	2	2	2	1	-	-	1
<b>Total</b>	<b>19</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>5</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Grand Total</b>	<b>69</b>				<b>14</b>			
Subject	Sponsored				Extension Functionaries			
	I	II	III	IV	I	II	III	IV
Crop production	As per H.Q.'s direction				2	1	2	1
Plant protection	-do-				1	1	2	3
Soil Science					1	1	1	1
Live Stock Production.					2	1	1	2
Home Science					1	1	1	1
Horticulture					1	1	1	1
<b>TOTAL -</b>					<b>8</b>	<b>6</b>	<b>8</b>	<b>9</b>
<b>Grand Total</b>					<b>31</b>			

### B.OFF Campus Trainings:

Subject	Practicing Farmer				Extension Functionaries			
	Off Campus				Off Campus			
	I	II	III	IV	I	II	III	IV
Crop Production	3	4	4	3	1	1	1	1
Plant protection	3	3	4	3	1	1	1	1
Soil Science	2	2	2	2	1	1	1	1
Live Stock Production.	3	3	2	4	2	1	1	1
Home Science	3	2	2	1	1	1	1	1
Horticulture	3	2	2	2	1	1	1	1
<b>Total</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>16</b>	<b>7</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Grand Total</b>	<b>66</b>				<b>25</b>			

## 2.4 Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	300	-	300	-	-	-	300	-	300
Kisan Mela	01	350	-	350	10	-	10	360	-	360
Kisan Ghosthi	04	250	-	250	08	-	08	258	-	258
Exhibition	-	-	-	-	-	-	-	-	-	-
Film Show	04	80	-	80	-	-	-	80	-	80
Lectures delivered as resource persons	20	1100	25	1125	18	-	18	1118	25	1143
Newspaper coverage	16	-	-	-	-	-	-	-	-	Mass
Radio talks	-	-	-	-	-	-	-	-	-	-
TV talks	-	-	-	-	-	-	-	-	-	-
Popular articles	05	-	-	-	-	-	-	-	-	Mass
Extension Literature	05	-	-	-	-	-	-	-	-	Mass
Advisory Services	20	50	-	50	8	-	8	58	-	58
Scientific visit to farmers field	90	534	-	534	15	-	15	534	-	549
Farmers visit to KVK	80	360	-	360	20	-	20	380	-	380
Diagnostic visits	10	45	-	45	-	-	-	45	-	45
Exposure visits	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	08	260	-	260	-	-	-	260	-	260
Participation in line dept. & others	22	660	-	660	08	-	08	668	-	668
<b>Total</b>	<b>229</b>	<b>3360</b>	<b>25</b>	<b>3385</b>	<b>87</b>		<b>87</b>	<b>3117</b>	<b>25</b>	<b>3472</b>

## 2.5 Target for Production and supply of Technological products Jan.2023-Dec.2023

### Seed Production

Sl. No.	Crop	Variety	Area (ha.)
<b>CEREALS</b>	Wheat	DBW 187, HD-3086, WH- 1105, HD- 2967, PBW- 550/others	10.24
<b>CEREALS/</b>	Paddy	PB1509, PB-1692, PB-1718/other best variety	5.00
<b>PULSES</b>	Urd	PU-31/ Azad - 1 & 2/other best variety	5.24
	<b>Total</b>	-	<b>20.48</b>

# Details of Training Programme

## ON Campus training for Practicing Farmers and farm Women

Subject	Title	Date	Clientele	Duration in days	Venue	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter (Jan.-March 2023)</b>											
<b>Crop production</b>	Inter cropping Wheat+ Mentha	Jan.23	PF	1	ON	19	-	19	1	-	1
	Production techniques of Sugar cane	Feb.23	PF	1	ON	19	-	19	1	-	1
	Production techniques of mung	March. 23	PF	1	ON	19	-	19	1	-	1
	Weed mgt. in s. cane	March. 23	PF	1	ON	19	-	19	1	-	1
<b>Plant protection</b>	Integrated pest management technique in <i>rabi</i> pulse crops.	Jan. 23	PF	1	ON	16	-	16	4	-	4
	Integrated Pest Management technique in mentha crop.	Jan. 23	PF	1	ON	19	-	19	1	-	1
	Technique and importance of Seed treatment in <i>zaid</i> crops.	Feb. 23	PF	1	ON	19	-	19	1	-	1
	Integrated disease management in sugarcane.	Mar. 23	PF	1	ON	16	-	16	4	-	4
<b>Soil Science</b>	Water and fertilizer management in sugarcane	Jan.23	PF	1	ON	19	-	19	1	-	1
	Role & importance of micronutrients in crop production	Feb 23	PF	1	ON	19	-	19	1	-	1
<b>Live Stock Production.</b>	Foot and mouth disease of animals: Its symptoms and control	Jan.23	PF	1	ON	19	-	19	1	-	1
	Clean milk production.	Feb.23	PF	1	ON	19	-	19	1	-	1
	Importance of vaccination in deferent animals.	Feb.23	PF	1	ON	19	-	19	1	-	1
	Management and care of chicks.	March 23	PF	1	ON	19	-	19	1	-	1
<b>Home Science</b>	Value addition of Aonla	Jan.23	PF	1	ON	17	-	17	3	-	3
	Preserving of peas for a year for income generation at village level	Feb 23	PF	1	ON	17	-	17	3	-	3
	Preservation of tomato at household level	March 23	PF	1	ON	17	-	17	3	-	3
<b>Horticulture</b>	Awareness about the Medicinal & Aromatic Plants	Jan..20 23	PF	1	ON	17	-	17	3	-	3
	Scientific Cultivation of Papaya with Natural Farming	Jan..20 23	PF	1	ON	17	-	17	3	-	3
	Scientific Cultivation of Elephant Foot Yam	Feb..20 23	PF	1	ON	17	-	17	3	-	3
	Scientific Cultivation of Cucurbits with Natural Farming	March. 2023	PF	1	ON	17	-	17	3	-	3

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IInd Quarter (April-June2023)</b>											
<b>Crop Production</b>	Mgt. of ratoon crop	April.2023	PF	1	ON	19	-	19	1	-	1
	Nursary management of paddy	May 2023	PF	1	ON	19	-	19	1	-	1
	DSR Production of paddy	May 2023	PF	1	ON	19	-	19	1	-	1
	IPNM in Scented rice	June 2023	PF	1	ON	19	-	19	1	-	1
	Production techniques of kharif urd	June 2023	PF	1	ON	19	-	19	1	-	1
<b>Plant protection</b>	Integrated insect management in mentha crop .	April 2023	PF	1	ON	17	-	17	3	-	3
	precautions during selection & use of pesticides and technique of solution making.	April 2023	PF	1	ON	17	-	17	3	-	3
	Integrated insect management in sugarcane crop.	May 2023	PF	1	ON	17	-	17	3	-	3
<b>Soil Science</b>	Management of fertilizers and manures for soil health	May 2023	PF	1	ON	19	-	19	1	-	1
	Methods and importance of SWC	June 2023	PF	1	ON	19	-	19	1	-	1
<b>Live Stock Production.</b>	Importance of mineral mixture in animal health	April 2023	PF	1	ON	17	-	17	3	-	3
	Mastitis in animals: Its symptoms and control	May 2023	PF	1	ON	17	-	17	3	-	3
	Scientific fish production.	June 23	PF	1	ON	17	-	17	3	-	3
<b>Home Science</b>	Promoting composting and Kitchen gardening for safe and sustainable food	April 2023	PF	1	ON	17	-	17	3	-	3
	Post harvest handling and storage of grain	April 2023	PF	1	ON	17	-	17	3	-	3
<b>Horticulture</b>	Scientific Cultivation of Lemon Grass with Natural Farming	April 2023	PF	1	ON	17	-	17	3	-	3
	Scientific Cultivation of Mentha	May 2023	PF	1	ON	17	-	17	3	-	3

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IIIrd Quarter (July- Sept. 2023)</b>											
<b>Crop Production</b>	IPNM in Paddy	July 2023	PF	1	ON	17	-	17	3	-	3
	Weed mgt. in paddy	July 2023	PF	1	ON	17	-	17	3	-	3
<b>Plant protection</b>	Management of termite in <i>kharif</i> crops.	July2023	PF	1	ON	17	-	17	3	-	3
	Disease control in urd crop.	July2023	PF	1	ON	17	-	17	3	-	3
	Integrated insect management in paddy	Aug 2023	PF	1	ON	17	-	17	3	-	3
	Management of hairy caterpillar in urd .	Aug 2023	PF	1	ON	17	-	17	03	-	03
	Integrated disease management in paddy	Sept.23	PF	1	ON	17	-	17	03	-	03
<b>Soil Science</b>	Role and Importance of bio fertilizer & water management in crop production	July2023	PF	1	ON	17	-	17	3	-	3
	Importance of Organic Farming	July2023	PF	1	ON	17	-	17	3	-	3
<b>Live Stock Production.</b>	Value addition and fortification of milk.	July2023	PF	1	ON	17	-	17	3	-	3
	Management and Care of goats.	Aug.2023	PF	1	ON	17	-	17	3	-	3
	Care and management of animals in rainy season.	Aug.2023	PF	1	ON	17	-	17	3	-	3
	Control of defereent parasites in defereent animals.	Sept. 23	PF	1	ON	17	-	17	3	-	3
<b>Home Science</b>	Rakhi Making by using locally available material	July2023	PF	1	ON	17	-	17	3	-	3
	Nutrition management in different physiological conditions	Aug.2023	PF	1	ON	17	-	17	3	-	3
<b>Horticulture</b>	Scientific Cultivation of Tissue Culture Banana with Natural Farming	July2023	PF	1	ON	17	-	17	3	-	3
	Scientific Cultivation of Litchi with natural farming	Aug.2023	PF	1	ON	17	-	17	3	-	3

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IVth Quarter (Oct.-Dec. 2023)</b>											
<b>Crop production</b>	Importance of sulphur in mustard	Oct.23	PF	1	ON	19	-	19	1	-	1
	Production techniques of lentil	Nov.23	PF	1	ON	19	-	19	1	-	1
	Production techniques of Potato	Dec.23	PF	1	ON	19	-	19	1	-	1
	IPNM in potato	Dec.23	PF	1	ON	19	-	19	1	-	1
<b>Plant protection</b>	Integrated pest management technique in mustard crop.	Nov.23	PF	1	ON	18	-	18	2	-	2
	Integrated insect management in lentil crops.	Nov. 23	PF	1	ON	15	-	15	5	-	5
	Management of early and late blight disease in potato	Dec.23	PF	1	ON	15	-	15	5	-	5
<b>Soil Science</b>	Importance of bio- fertilizer in oil seed and pulses	Oct.23	PF	1	ON	19	-	19	1	-	1
	Importance and method of fertilizer application to increase fertilizer use efficiency	Nov..23	PF	1	ON	19	-	19	1	-	1
<b>Live Stock Production.</b>	Mastitis in animals: Its symptoms and control	Oct. 23	PF	1	ON	19	-	19	1	-	1
	Importance of artificial insemination (AI) in animal.	Nov. 23	PF	1	ON	19	-	19	1	-	1
	Care and management of newly born calf.	Nov. 23	PF	1	ON	19	-	19	1	-	1
	Importance of green fodder for animals.	Dec.23	PF	1	ON	19	-	19	1	-	1
<b>Home Science</b>	Vaccination programme for children's	Oct.23	PF	1	ON	19	-	19	1	-	1
<b>Horticulture</b>	Winter Season Vegetable Growing Techniques	Nov.23	PF	1	ON	19	-	19	1	-	1
	Hi-Tech Nursery Growing and Its Management	Dec.23	PF	1	ON	19	-	19	1	-	1

### ON Campus : Vocational training programme for Rural Youth

Subject	Title	Date	Thrust Area	Clie n tele	Du ra ti on in day s	Ven ue off/ on	No. of Participants			Number of SC/ST		
							M	F	To tal	M	F	Tot al
<b>Ist Quarter (Jan.-March-2023)</b>												
<b>Crop production</b>	Vermicomi-post production	Feb., 2023	Organic production	EF	6	ON	10	-	10	-	-	-
<b>Plant protection</b>	Technique of bee keeping	Feb 2023	Promotion of honey production	RY	6	ON	8	-	8	2	-	2
<b>Livestock</b>	Broiler production	Feb 2023	Broiler production	RY	6	ON	8	-	8	2	-	2
<b>Soil Science</b>	Techniques of organic manure production	Feb 2023	organic production	RY	6	ON	8	-	8	2	-	2
<b>Horticulture</b>	Supply Chain Management of Major Vegetable Crops	Feb 2023	Supply Chain Management of Major Flower Crops	RY	6	ON	8	-	8	2	-	2
<b>IInd Quarter (April-June 2023)</b>												
<b>Crop production</b>	Vermicomi-post production	June., 2023	Organic production	RY	6	ON	10	-	10	-	-	-
<b>Livestock</b>	Broiler production	6 April2023	Broiler production	RY	6	ON	8	-	8	2	-	2

<b>III<sup>th</sup> Quarter (July-Sept.-2023)</b>												
<b>Crop production</b>	Blue-Green algae production	July. 2023	Bio-fertilizer production	EF	6	ON	10	-	10	-	-	-
<b>Home Science</b>	Stitching of women cloths	July. 2023	Stitching	EF	6	ON	10	-	10	-	-	-
<b>Soil Science</b>	Techniques of organic farming	July 2023	organic farming	RY	6	ON	8	-	8	2	-	2
<b>IV<sup>th</sup> Quarter (Oct._Dec. 2023)</b>												
<b>Crop production</b>	Vermicomi-post production	Oct. 2023	Organic production	RY	6	ON	8	-	8	2	-	2
<b>Plant Protection</b>	Technique of bee keeping	Oct. 2023	Promoting honey production	RY	6	ON	8	-	8	2	-	2
<b>Horticulture</b>	Export Promotion of Vegetables	Oct. 2023	Export Promotion of Fruits	RY	6	ON	8	-	8	2	-	2
<b>Home Science</b>	Preparation of household articles by the technique of tie and dye	Nov 2023	Ensuring preparation of household articles at own home	RY	6	ON	8	-	8	2	-	2

### ON Campus Training Programme for Extension Functionaries:

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST			
						M	F	Total	M	F	Total	
<b>Ist Quarter (Jan-March 2023)</b>												
<b>Crop production</b>	Production techniques of wheat+mentha	Jan2023	EF	1	ON	10	-	10	-	-	-	
	Production techniques of sugar cane	Feb2023	EF	1	ON	10	-	10	-	-	-	
<b>Plant Protection</b>	Integrated pest management technique in Zaid crops.	Jan. 2023	EF	1	ON	7	-	7	3	-	3	
<b>Soil Science</b>	Water and fertilizer mgt. in zaid pulses crops	Jan2023	EF	1	ON	10	-	10	-	-	-	
<b>Livestock</b>	Nutrition and feeding of cow and buffalo calves	Feb2023	EF	1	ON	10	-	10	-	-	-	
	Importance of hey and silage for animals.				ON							
<b>Horticulture</b>	Supply Chain Management of Sub-Tropical Fruits	Feb2023	EF	1	ON	10	-	10	-	-	-	
<b>Home Science</b>	Nutritional deficiency diseases, its symptoms and remedies in human being	Jan 2023	EF	1	ON	10	-	10	-	-	-	
<b>IInd Quarter (April-June 2023)</b>												
<b>Crop production</b>	DSR in paddy	June 2023	EF	1	ON	7	-	7	3	-	3	
<b>Plant protection</b>	Management of Top borer in S.cane	June 2023	EF	1	ON	7	-	7	3	-	3	
<b>Soil Science</b>	Importance and method of soil sampling	June 2023	EF	1	ON	7	-	7	3	-	3	
<b>Livestock</b>	Green fodder production and preservation	May 2023	EF	1	ON	7	-	7	3	-	3	
<b>Horticulture</b>	Establishment of Commercial Hardening Centre of Saplings/Nursery	May 2023	EF	1	ON	7	-	7	3	-	3	
<b>Home Science</b>	Common food adulterants and their identification	May 2023	EF	1	ON	7	-	7	3	-	3	
<b>IIIrd quarter (July-Sept.2023)</b>												
<b>Crop production</b>	Importance of water soluble fertilizer	Aug. 2023	EF	1	ON	7	-	7	3	-	3	
	Production techniques of mustard	Sep.2023	EF	1	ON	7	-	7	3	-	3	



<b>Plant protection</b>	Management of Mosaic disease in Urd crop.	July 2023	EF	1	ON	9	-	9	1	-	1
	Integrated pest management technique in <i>kharif</i> crops	Sept. 2023	EF	1	ON	7	-	7	3	-	3
<b>Soil Science</b>	Importance of vermin-compost, Biodynamic manure	July 2023	EF	1	ON	8	-	8	2	-	2
	Importance of soil testing in crop production	Aug. 2023	EF	1	ON	8	-	8	2	-	2
<b>Livestock</b>	Control of Uterus septic	July 2023	EF	1	ON	8	-	8	2	-	2
<b>Horticulture</b>	Nursery Management of Vegetable Crops	Sep 2023	EF	1	ON	8	-	8	2	-	2
<b>Home Science</b>	Preparation of Aganwandi kit from locally available material	July 2023	EF	1	ON	8	-	8	2	-	2

<b>IVth Quarter (Oct.-Dec.2023)</b>											
<b>Crop production</b>	Production techniques of wheat	Oct.2023	EF	1	ON	10	-	10	-	-	-
<b>Plant protection</b>	Integrated pest management in <i>rabi</i> vegetables	Oct. 2023	EF	1	ON	8	-	8	2	-	2
	Technique of selection & use of pesticides.	Nov. 2023	EF	1	ON	5	-	5	5	-	5
	Integrated pest management in <i>rabi</i> pulse crops	Dec. 2023	EF	1	ON	8	-	8	2	-	2
<b>Soil Science</b>	INM in oil seed and pulses	Nov.2023	EF	1	ON	10	-	10	-	-	-
<b>Livestock</b>	Vaccination and other preventive measures against contagious diseases in animals	Dec.2023	EF	1	ON	10	-	10	-	-	-
<b>Horticulture</b>	Off Season Vegetable Production Techniques	Dec.2023	EF	1	ON	10	-	10	-	-	-
<b>Home Science</b>	Nutritional deficiency diseases, its symptoms and remedies in human being	Nov.2023	EF	1	ON	10	-	10	-	-	-

**(i) OFF Campus training for Practicing Farmers and farm Women**

Subject	Title	Date	Client	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter (Jan.-March 2023)</b>											
<b>Crop production</b>	Inter cropping Wheat+ Mentha	Jan.2023	PF	1	Off	19	-	19	1	-	1
	Production techniques of Sugar cane	Feb.2023	PF	1	Off	19	-	19	1	-	1
	Production techniques of mung	Feb.2023	PF	1	Off	19	-	19	1	-	1
<b>Plant protection</b>	Integrated pest management technique in <i>rabi</i> pulse crops.	Jan. 2023	PF	1	Off	16	-	16	4	-	4
	Integrated Pest Management technique in mentha crop.	Jan. 2023	PF	1	Off	19	-	19	1	-	1
	Technique and importance of Seed treatment in <i>zaid</i> crops.	Feb. 2023	PF	1	Off	19	-	19	1	-	1
<b>Soil Science</b>	Water and fertilizer management in sugarcane	Jan.2023	PF	1	Off	19	-	19	1	-	1
	Role & importance of micronutrients in crop production	Feb 2023	PF	1	Off	19	-	19	1	-	1
<b>Live Stock</b>	Foot and mouth disease of animals: Its	Jan.2023	PF	1	Off	19	-	19	1	-	1

<b>Production</b>	symptoms and control										
	Clean milk production.	Feb.20 23	PF	1	Off	19	-	19	1	-	1
	Importance of vaccination in deferent animals.	Feb.20 23	PF	1	Off	19	-	19	1	-	1
<b>Home Science</b>	Value addition of Aonla	Jan.202 3	PF	1	Off	17	-	17	3	-	3
	Preserving of peas for a year for income generation at village level	Feb 2023	PF	1	Off	17	-	17	3	-	3
	Preservation of tomato at household level	March2 0 23	PF	1	Off	17	-	17	3	-	3
<b>Horticultu re</b>	Scientific Cultivation of Sub-Tropical Seed Spice	Jan..20 23	PF	1	Off	17	-	17	3	-	3
	Roof Gardening	March2 023	PF	1	Off	17	-	17	3	-	3

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IInd Quarter (April-June2023)</b>											
<b>Crop Production</b>	Mgt. of ratoon crop	April.2023	PF	1	Off	19	-	19	1	-	1
	Nursary management of paddy	May 2023	PF	1	Off	19	-	19	1	-	1
	IPNM in Scented rice	June 2023	PF	1	Off	19	-	19	1	-	1
	Production techniques of kharif urd	June 2023	PF	1	Off	19	-	19	1	-	1
<b>Plant protection</b>	Integrated insect management in mentha crop .	April 2023	PF	1	Off	17	-	17	3	-	3
	precautions during selection & use of pesticides and technique of solution making.	April 2023	PF	1	Off	17	-	17	3	-	3
	Integrated insect management in sugarcane crop.	May 2023	PF	1	Off	17	-	17	3	-	3
<b>Soil Science</b>	Management of fertilizers and manures for soil health	May 2023	PF	1	Off	19	-	19	1	-	1
	Methods and importance of SWC	June 2023	PF	1	Off	19	-	19	1	-	1
<b>Live Stock Production.</b>	Importance of mineral mixture in animal health	April 2023	PF	1	Off	17	-	17	3	-	3
	Mastitis in animals: Its symptoms and control	May 2023	PF	1	Off	17	-	17	3	-	3
	Scientific fish production.	June 23	PF	1	Off	17	-	17	3	-	3
<b>Home Science</b>	Promoting composting and Kitchen gardening for safe and sustainable	April 2023	PF	1	Off	17	-	17	3	-	3

	food										
	Post harvest handling and storage of grain	April 2023	PF	1	Off	17	-	17	3	-	3
<b>Horticulture</b>	Peri-Urban Agriculture	April 2023	PF	1	Off	17	-	17	3	-	3
	Awareness of different Horticultural Plans/Schemes	May 2023	PF	1	Off	17	-	17	3	-	3
<b>IIIrd Quarter (July- Sept. 2023)</b>											
<b>Crop Production</b>	IPNM in Paddy	July 2023	PF	1	Off	17	-	17	3	-	3
	Weed mgt. in paddy	July 2023	PF	1	Off	17	-	17	3	-	3
	Importance of Natural farming	Aug. 2023	PF	1	Off	17	-	17	3	-	3
	Toriya cultivation	Sep. 2023	PF	1	Off	17	-	17	3	-	3
<b>Plant protection</b>	Management of termite in <i>kharif</i> crops.	July2023	PF	1	Off	17	-	17	3	-	3
	Disease control in urd crop.	July2023	PF	1	Off	17	-	17	3	-	3
	Integrated insect management in paddy	Aug 2023	PF	1	Off	17	-	17	3	-	3
	Management of hairy caterpillar in urd .	Aug 2023	PF	1	Off	17	-	17	03	-	03
	Integrated disease management in paddy	Sept.023	PF	1	Off	17	-	17	03	-	03
<b>Soil Science</b>	Role and Importance of bio fertilizer & water management in crop production	July2023	PF	1	Off	17	-	17	3	-	3
	Importance of Organic Farming	July2023	PF	1	Off	17	-	17	3	-	3
<b>Live Stock Production.</b>	Value addition and fortification of milk.	July2023	PF	1	Off	17	-	17	3	-	3
	Management and Care of goats.	Aug.2023	PF	1	Off	17	-	17	3	-	3
	Care and management of animals in rainy season.	Aug.2023	PF	1	Off	17	-	17	3	-	3
	Control of deferent parasites in deferent animals.	Sept. 2023	PF	1	Off	17	-	17	3	-	3
<b>Home Science</b>	Rakhi Making by using locally available material	July2023	PF	1	Off	17	-	17	3	-	3
	Nutrition management in different physiological conditions	Aug.2023	PF	1	Off	17	-	17	3	-	3
<b>Horticulture</b>	Orchard Management of Mango and Guava	July2023	PF	1	Off	17	-	17	3	-	3
	Inter-Cropping System with Mango and Guava	Aug.2023	PF	1	Off	17	-	17	3	-	3

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>IVth Quarter (Oct.-Dec. 2023)</b>											
<b>Crop production</b>	Importance of sulphur in mustard	Oct.2023	PF	1	Off	19	-	19	1	-	1
	Production techniques of lentil	Nov.2023	PF	1	Off	19	-	19	1	-	1
	Production techniques of Potato	Dec.2023	PF	1	Off	19	-	19	1	-	1
<b>Plant protection</b>	Integrated pest management technique in mustard crop.	Nov.2023	PF	1	Off	18	-	18	2	-	2
	Integrated insect management in lentil crops.	Nov. 2023	PF	1	Off	15	-	15	5	-	5
	Management of early and late blight disease in potato	Dec.2023	PF	1	Off	15	-	15	5	-	5
<b>Soil Science</b>	Importance of bio- fertilizer in oil seed and pulses	Oct.2023	PF	1	Off	19	-	19	1	-	1
	Importance and method of fertilizer application to increase fertilizer use efficiency	Nov.2023	PF	1	Off	19	-	19	1	-	1
<b>Live Stock Production.</b>	Mastitis in animals: Its symptoms and control	Oct. 2023	PF	1	Off	19	-	19	1	-	1
	Importance of artificial insemination (AI) in animal.	Nov. 2023	PF	1	Off	19	-	19	1	-	1
	Care and management of newly born calf.	Nov. 2023	PF	1	Off	19	-	19	1	-	1
	Importance of green fodder for animals.	Dec.2023	PF	1	Off	19	-	19	1	-	1
<b>Home Science</b>	Vaccination programme for children's	Oct.2023	PF	1	Off	19	-	19	1	-	1
<b>Horticulture</b>	Nursery Growing and Its Online Marketing	Nov.2023	PF	1	Off	19	-	19	1	-	1
	Marketing of Saplings	Dec.2023	PF	1	Off	19	-	19	1	-	1

## OFF Campus Training Programme for Extension Functionaries:

Subject	Title	Date	Clientele	Duration in days	Venue off/on	No. of Participants			Number of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter (Jan-March 2023)</b>											
<b>Crop production</b>	Natural farming Production techniques of wheat+mentha	Jan 2023	EF	1	Off	10	-	10	-	-	-
<b>Plant Protection</b>	Integrated pest management technique in Zaid crops.	Jan 2023	EF	1	Off	7	-	7	3	-	3
<b>Soil Science</b>	Water and fertilizer mgt. in zaid pulses crops	Jan2023	EF	1	Off	10	-	10	-	-	-
<b>Livestock</b>	Nutrition and feeding of cow and buffalo calves	Feb2023	EF	1	Off	10	-	10	-	-	-
<b>Horticulture</b>	Export/ Emport Promotion of Horticultural Crops	Feb2023	EF	1	Off	10	-	10	-	-	-
<b>Home Science</b>	Nutritional deficiency diseases, its symptoms and remedies in human being	Jan2023	EF	1	Off	10	-	10	-	-	-
<b>IInd Quarter (April-June 2023)</b>											
<b>Crop production</b>	Drum seeded rice	June 2023	EF	1	Off	7	-	7	3	-	3
<b>Plant protection</b>	Management of Top borer in S.cane	June 2023	EF	1	Off	7	-	7	3	-	3
<b>Soil Science</b>	Importance and method of soil sampling	June 2023	EF	1	Off	7	-	7	3	-	3
<b>Livestock</b>	Green fodder production and preservation	May 2023	EF	1	Off	7	-	7	3	-	3
<b>Horticulture</b>	Orchard Management of Citrus	May 2023	EF	1	Off	7	-	7	3	-	3
<b>Home Science</b>	Common food adulterants and their identification	May 2023	EF	1	Off	7	-	7	3	-	3
<b>IIIrd quarter (July-Sept.2023)</b>											
<b>Crop production</b>	Natural farming Production techniques of mustard	Aug. 2023	EF	1	Off	7	-	7	3	-	3
<b>Plant protection</b>	Management of Mosaic disease in Urd crop.	July 2023	EF	1	Off	9	-	9	1	-	1
<b>Soil Science</b>	Importance of vermin-compost, Biodynamic manure	July 2023	EF	1	Off	8	-	8	2	-	2
<b>Livestock</b>	Control of Uterus septic	July 2023	EF	1	Off	8	-	8	2	-	2
<b>Horticulture</b>	Technical training on gladiolus cultivation	Sep 2023	EF	1	Off	8	-	8	2	-	2
<b>Home Science</b>	Preparation of Aganwandi kit from locally available material	July 2023	EF	1	Off	8	-	8	2	-	2
<b>IVth Quarter (Oct.-Dec.2023)</b>											
<b>Crop production</b>	Production techniques of wheat	Oct.2023	EF	1	Off	10	-	10	-	-	-
<b>Plant protection</b>	Integrated pest management in <i>rabi</i> vegetables	Oct. 2023	EF	1	Off	8	-	8	2	-	2
<b>Soil Science</b>	INM in oil seed and pulses	Nov.2023	EF	1	Off	10	-	10	-	-	-
<b>Livestock</b>	Vaccination and other preventive measures against contagious diseases in animals	Dec.2023	EF	1	Off	10	-	10	-	-	-
<b>Horticulture</b>	Natural Farming of Fruits & Vegetables	Dec.2023	EF	1	Off	10	-	10	-	-	-
<b>Home Science</b>	Nutritional deficiency diseases, its symptoms and remedies in human being	Nov.2023	EF	1	Off	10	-	10	-	-	-



# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA SHAHJAHANPUR**

# DETAILS OF ACTION PLAN OF KVK-SHAHJAHANPUR DURING 2023 (1<sup>st</sup> January to 31<sup>st</sup> December 2023)

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail	Website
	Office	FAX		
KVK Niyamatpur, Shahjahanpur	-	-	shahjahanpurkvk@gmail.com	Shahajahanpur.kvk4.in

### 1.2 .a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website
	Office	FAX		
Vice Chancellor, S.V.P.U.A. & T., Meerut	-	-	svbpuat_meerut@indiatimes.com	<a href="http://www.svbpm Meerut.ac.in">www.svbpm Meerut.ac.in</a>

1.2.b. Status of KVK website : Yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :2039336

1.2.d Status of ICT lab at your KVK : Not established

### 1.3. Name of the Professor/Officer In charge with phone & mobile no.

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. N.C. Tripathi	-	9450417136	<a href="mailto:nalinchandratripathi@gmail.com">nalinchandratripathi@gmail.com</a>

1.4. Year of sanction: 1992

### 1.5. Staff Position (as on August. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Recent photograph
1	Professor & Office -In charge	Dr. N.C. Tripathi	Professor	Agromony	37400-67000	10000	182700	01.06.1998	Permanent	GEN	9450417136	nalinchandratripathi@gmail.com	
2	Subject Matter Specialist***	Dr. Nutan Verma	Professor	Plant Path.	37400-67000	10000	193846	07.06.1996	Permanent	Others	9450444487	Vermanutan65@gmail.com	

3	Professor & Office - In charge	Dr. Narendra Prasad	Professor	Agri. Ext.	37400-67000	9000	182700	10.07.1996	Permanent	Permanent	OBC	9450416956	narendraprasadkvk@gmail.com	
3	Subject Matter Specialist	Km. Vidya Gupta	Subject Matter Specialist	Home Sc.	15600-39100	8000	101200	16.12.2003	Permanent	Permanent	OBC	9415366111	vidyaguptakvk@gmail.com	
4	Subject Matter Specialist	Dr. S.K. Verma	Subject Matter Specialist	Horticulture	15600-39100	8000	101100	24.06.2008	Permanent	Permanent	SC	9450234406	vermasant@gmail.com	
5	Subject Matter Specialist	Dr. Shiv Kumar Yadav	Subject Matter Specialist	Veterinary Scie	15600-39100	5400	56100	04.07.2022	Permanent	Permanent	OBC	9473588885	dr.shivkumarjnp@gmail.com	
6	Programme Assistant	Dr. Chandrapal	Programme Assistant	A.V.Aids	9300-34800	5400	87700	20.12.1995	Permanent	Permanent	Others	9415482746	cpdepali@gmail.com	
7	Computer Programmer	Dr Manoj Kr. Mishra	Computer Programmer	Computer	9300-34800	4800	78800	28.10.1999	Permanent	Permanent	Others	9412423526	mkmishrapandit@gmail.com	
9	Farm Manager	Dr. Vimal kumar Singh	Farm Manager	Entomology	9300-34800	4600	55200	31.07.2007	Permanent	Permanent	Others	9458078489	Anups671@gmail.com	
10	Stenographer	Sandeep Saxena	Stenographer	-	9300-34800	4600	64100	02.09.1995	Permanent	Permanent	Others	9450443210	-	
11	Driver	Sonu Gupta	Driver	-	5200-20200	2400	33300	27.07.2007	Permanent	Permanent	Others	9411986427	-	
12	Supporting Staff	Shubam Kumar Sagar	Attendant	-	5200-20200	1800	20900	21.03.2017	Permanent	Permanent	Others	8874594581	-	

\*\*\*Research Scientist attached with KVK



**1.6. Total land with KVK (in ha) : 18.314**

S. No.	Item	Area (ha)
1	Under Buildings	0.600
2.	Under Demonstration Units	0.016
3.	Under Crops	4.000
4.	Forest	10.00
(Under RKVY land development work is in progress)		
5.	Pond	-
6.	Others if any	3.698

**1.7. Infrastructural Development:**

**A) Buildings**

S. No.	Name of building	Source of funding	Stage						Required New	Needs renovation
			Complete			Incomplete				
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction		
1.	Administrative Building	ICAR	2000	0.600	2647000		-	Completed		
2.	Farmer's Hostel	ICAR	-	0.300	2289916	Sept 06	-	Completed		
3.	Staff Quarters (6)	ICAR	-	0.040	2671000	„	-	Completed	10 staff quarters	
4.	Demonstration Units (2)	ICAR	-	0.016	1104974	„	-	Completed		
5	Fencing	ICAR	-	2000R/M	3843000	“	-	Completed		
6	Rain Water harvesting system	ICAR	-	0.400	50000	„	-	Completed		
7	Threshing floor	ICAR	-	0.030	230000	“	-	Completed		
8	Farm godown	ICAR	-	0.006	362539	“	-	Completed		
9	Irrigation channel	ICAR	-	1000R/m	826000	„	-	Completed		

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	Required replacement
Bolero jeep UP27G-0138	June, 2009	5.07 Lac	196657	Condemn	Yes
Hero Honda Super Splender UP27G-0146	April ,10	46159.00	37719	Working	-
Tractor (Sonalika DI-47 RX)	17.03.17	520863.00	425.0 hrs	Working	-

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status	Required replacement
Daree – 05	2002	2010.00	Working order	
Kirloskar Diesel Engine Model Ks-10 with Acess.	2003	21210.00	-----do-----	
Spade – 02	2003	140.00	-----do-----	
Zero tillage Cum Bed Planter - 2	2003	11900.00	-----do-----	
Office Chair- 10 No.	2003	3564.00	-----do-----	
Dice	2003	1800.00	-----do-----	
Printer	2003	4000.00	Not working	

Steel Book Shelf -2	2003	6261.84	Working order	
Tourch	2003	220.00	-----do-----	
Harrow	2004	16800.00	-----do-----	
Lavellor	2004	4250.00	-----do-----	
Daree - 04	2004	2010.00	-----do-----	
Heat Convecton - 2	2004	850.00	-----do-----	
Home Science Material (Bartan)	2004	4589.75	-----do-----	
Home Science Material (Oth. Material)	2004	8996.00	-----do-----	
Gas Cylinder - Two	2004	2074.72	-----do-----	
Television	2004	10490.00	-----do-----	
D.V.D Player	2004	11990.00	-----do-----	
Office Table With One Side drawer 9	2004	12222.00	-----do-----	
Office Table With Two Side drawer	2004	8028.00	-----do-----	
Computer Table	2004	3450.00	-----do-----	
Office Chair Can Seat & Back -80	2004	28640.00	-----do-----	
Computer Chair	2004	1575.00	-----do-----	
Ex. Rev. Chair	2004	2859.00	-----do-----	
Rack - 2 (Covered Side Rack)	2004	1500.00	-----do-----	
Steel Rack - 1	2004	1617.00	-----do-----	
Scanner	2004	3700.00	-----do-----	
Library book - 40 No.	2004		-----do-----	
Library book - 6 No.	2004	1064.00	-----do-----	
Steel Book Shelf -2	2004	6579.28	-----do-----	
Chair donlup cushion	2004	12360.00	-----do-----	
Tourch	2004	215.00	-----do-----	
Invertor Battery	2004	11200.00	-----do-----	
Generator - 5 KVA	2004	3700.00	-----do-----	
Photo copier G1508	2004	61240.00	Not working	
Stabilizer 5 KVA	2004	5000.00	Working order	
Slide Projector	2004		-----do-----	
Over hade Projector	2004		-----do-----	
Soil Science Unit Grinder, Sale Willy Mill Chamalur	2005	23252.40	-----do-----	
Conductivity Meter - 1	2005	8750.00	-----do-----	
Mechanical Shaper - 1	2005	5270.00	-----do-----	
Cooler	2005	5670.00	-----do-----	
Office Table With Two Side drawer	2005	1950.00	-----do-----	
Ex. Rev. Chair	2005	2800.00	-----do-----	
Steel Rack - 1	2005	1464.48	-----do-----	
Steel Rack - 2	2005	2713.92	-----do-----	
Book Case - 1	2005	2933.00	-----do-----	
Book Shelf	2005	5586.00	-----do-----	
Ex. Table	2005	4215.00	-----do-----	
Printer	2005	2900.00	-----do-----	
Library book - 13 No.	2005	1483.00	-----do-----	
Library book - 6 No.	2005	1782.00	-----do-----	
Library book - 3 No.	2005	1098.00	-----do-----	
Library book - 2 No.	2005	168.00	-----do-----	
Chemical Balance	2005	87000.00	-----do-----	
Oven	2005	14500.00	-----do-----	
Refrigerator With Stabilizer	2005	12000.00	-----do-----	
Microscope	2005	4600.00	-----do-----	
Kejeldal Digestion Unit For Six Slash - 2	2005	13400.00	-----do-----	
Kejeldal Distillation Unit for 6 Slash - 2	2005	30000.00	-----do-----	
Spectrophotometer	2005	106500.00	-----do-----	
Flame Photometer	2005	33430.00	-----do-----	

PH Meter	2005	10350.00	Working order	
Hot Plate	2005	8200.00	-----do-----	
Water Distillation Unit	2005	85000.00	-----do-----	
Soil Science Unit (Others Materials)	2005	15179.00	-----do-----	
Physical Balance	2005	11990.00	-----do-----	
Phawara - 6	2005	780.00	-----do-----	
Khurpi – 12	2005	300.00	-----do-----	
Laboratory Tray- 4	2005	2200.00	-----do-----	
Sieves Brass - 5	2005	2480.00	-----do-----	
Tube well Boring - 1	2005	9850.00	-----do-----	
Diesel Suction Pump	2005	3278.70	-----do-----	
Reading Cum Conference Table	2006	9850.00	-----do-----	
Stabilizer 6 KVA	2006	5500.00	-----do-----	
Raised bed multi crop planter	20.11.10	57500.00	Working order	
Grinder/milling machine with motor	31.03.11	18850.00	-----do-----	
Humidityfier	31.03.11	17800.00	-----do-----	
Electronic polybag sealing machine	31.03.11	4300.00	-----do-----	
Physical Scale	31.03.11	3500.00	-----do-----	
Electronic scale	31.03.11	46200.00	-----do-----	
Steplizer	31.03.11	2622.00	-----do-----	
BOD incubator	31.03.11	46075.00	-----do-----	
Steplizer	31.03.11	4218.00	-----do-----	
laminar flow bench with access table with manome	31.03.11	44460.00	-----do-----	
Steplizer	31.03.11	19665.00	-----do-----	
Corcyra cages	31.03.11	42750.00	-----do-----	
microscope binocular	31.03.11	32219.00	-----do-----	
Manual weighing machine	31.03.11	712.00	-----do-----	
Hygrometer	31.03.11	1425.00	-----do-----	
Medium duty stirrer	31.03.11	10412.00	-----do-----	
Hot air oven	31.03.11	10500.00	-----do-----	
Hot plate with regulator	31.03.11	1850.00	-----do-----	
Vaccum cleaner	31.03.11	9000.00	-----do-----	
Double Distillation apratus	31.03.11	48780.00	-----do-----	
Deep freezer	31.03.11	29500.00	Working order	
Autoclave	31.03.11	44000.00	-----do-----	
Mixer cum grinder	31.03.11	10500.00	-----do-----	
Fridge	29.02.12	16770.00	-----do-----	
Hot air oven, Digital control	31.03.12	34000.00	-----do-----	
Air circulating fan	31.03.12	2400.00	-----do-----	
testube stand aluminium	31.03.12	3700.00	-----do-----	
Aorkborer ,machine	31.03.12	3560.00	-----do-----	
Haemo cytometer	31.03.12	6208.00	-----do-----	
Inoculation/UV chamber	31.03.12	19475.00	-----do-----	
B.O.D. Incubator With Accessories	31.03.12	104857.00	-----do-----	
Office Table	31.03.12	8320.00	-----do-----	
Office Chair	31.03.12	6448.00	-----do-----	
Computer Table	31.03.12	5200.00	-----do-----	
Computer Chair	31.03.12	2808.00	-----do-----	
Visitor chair	31.03.12	3640.00	-----do-----	
Stool	31.03.12	1976.00	-----do-----	
Almira	31.03.12	15600.00	-----do-----	
Book Case	31.03.12	11440.00	-----do-----	
Rack	31.03.12	7700.00	-----do-----	
Lab Table Steel Fram 8x2x	31.03.12	24960.00	-----do-----	
Capboard Steel Fram	31.03.12	7488.00	Working order	

Inverter	31.03.12	6900.00	-----do-----	
Battery	31.03.12	20764.00	-----do-----	
Cooker	22.03.13	1400.00	-----do-----	
Rice chalni	22.03.13	650.00	-----do-----	
Jug	22.03.13	450.00	Working order	
Bhagona With Dhakan	22.03.13	1900.00	Working order	
Piller	22.03.13	180.00	-----do-----	
Spoon	22.03.13	150.00	-----do-----	
Souce Pan	22.03.13	535.00	-----do-----	
Air condition	20.05.11	-	-----do-----	
computer Desktop with assessor& Monitor	19.03.10	29000.00	-----do-----	
Fax machine	19.03.10	6500.00	-----do-----	
Raised bed multi crop planter	20.11.10	57500.00	-----do-----	
Soil testing kit	28.03.17	86000.00	-----do-----	
Harrow PADDY DISC	20.03.17	19000.00	-----do-----	
Rotavator gear type	20.03.17	97832.00	-----do-----	
16 disc harrow mounted type	20.03.17	33220.00	-----do-----	
Hand winnowing Fan	20.03.17	2516.00	-----do-----	
Inverter	17.03.17	6000.00	-----do-----	
Battery Exide	17.03.17	13500.00	-----do-----	
Wall fan Hawells (06)	17.03.17	13800.00	-----do-----	
Camera cannon digital	17.03.17	16995.00	-----do-----	
AC Split 1.5 ton	08.03.17	58795.00	-----do-----	
Stablizer	08.03.17	5256.00	-----do-----	
Water cooler	08.03.17	85148.00	-----do-----	
Laptop Dell	08.03.17	52243.00	-----do-----	
Lesser Jet Printer	08.03.17	18271.00	-----do-----	
LED Screen	08.03.17	55745.00	-----do-----	
Office Table (6x3x2.5)	21.03.17	7230.00	-----do-----	
Office Table Computer (4x2x.5)	21.03.17	6060.00	-----do-----	
Ex. High Back Chair	21.03.17	4150.00	-----do-----	
Computer Chair (02)	21.03.17	3840.00	-----do-----	
Finger print time attendance (01)	22.02.17	7903.00	-----do-----	
Desk top computer (02)	22.02.17	98756.00	-----do-----	
UPS -600VA-02	22.02.17	5505.00	-----do-----	
HP laser Jet Printer	22.02.17	13988.00	-----do-----	
Laptop Dell 01	22.02.17	52243.00	-----do-----	
AC Split 1.5 ton (01)	22.02.17	58795.00	-----do-----	
Stabilizer (01)	22.02.17	5256.00	-----do-----	
Boring new Submersible pump set 7.5 HP	29.03.17	229000.00	-----do-----	
High Back Chair	26.03.17	5000.00	-----do-----	
Visitor Chair (20)	26.03.17	36000.00	-----do-----	
Almirrah Large (02)	26.03.17	25600.00	-----do-----	
Display Board	26.03.17	8400.00	-----do-----	
Table	26.03.17	21700.00	-----do-----	
Steel Stool (Small-02)	08.02.2018	1208.00	-----do-----	
Filling Cabinet	08.02.2018	9252.00	-----do-----	
Steel Almirah	08.02.2018	9504.00	-----do-----	

**1.8. A). Details of SAC meetings to be conducted in the year**

Sl.No.	Date
1. Scientific Advisory Committee	December, 2021

## 2. DETAILS OF DISTRICT

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Crop production system
2	Crop production and livestock production system
3	Fruits / Vegetable /Floriculture /farming
4	Fisheries, Poultry, Mushroom production and Goetry

### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

#### a) Soil type

S. No	Agro-climatic Zone	Characteristics
1	Mid Western plain zone	Alluvial, Calcareous, Clay, Saline Alkaline Annual rainfall 807 mm

#### b) Topography

S. No	Agro-ecological situation	Characteristics
1	AES-1 (Powayan Tehsil ) Block 1. Sindhauli 2. Powayan 3. Banda 4. Khutar	<ol style="list-style-type: none"> <li>Productive plain land under canal and tube well irrigation</li> <li>Main cropping system rice - wheat - sugarcane, potato, Lentil, Toria</li> <li>Soil type – Loam, Clay loam, Sandy loam,</li> </ol>
2	AES-2 (Sadar and Tilhar Tehsil ) Block- 1. Bhawalkhera 2. Dadraul 3. Negohi 4. Khudaganj 5. Tilhar	<ol style="list-style-type: none"> <li>Plain and water logged under canal and tube well irrigation</li> <li>Major crops grown <i>i.e.</i> Rice, Wheat, Sugarcane, Toria, Potato, Lentil, Urd&amp;Til</li> <li>Soil type - loam, clay loam.</li> </ol>
3	AES-3 (Jalalabad Tehsil ) Block- 1. Jalalabad 2. Kanth 3. Madnapur 4. Kalan 5. Mirjapur 6. Jaitipur	<ol style="list-style-type: none"> <li>Rainfed and tube well irrigated cultivable land</li> <li>Major crop – Paddy, Ground Nut, Jowar, Bajra, Til, maize, Mustard, Lentile, Urd, Wheat, Sugarcane, Paddy.</li> <li>Soil type – Sandy /sandy loam</li> </ol>

### 2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Sandy soil	About 50% sand in this soil mostly rain fed farming	157677
2	Loam /Clay loam	Irrigated land & all crop grown	208899
3	Loam	In this soil paddy wheat and other oil seed and pulses crops are grown	60818

#### 2.4. Area, Production and Productivity of major crops cultivated in the district (2019-20)

S. No.	Crop	Area (ha)	Production (Qt.)	Productivity (Qt. /ha)
1	Sugarcane	70328.00	43181392	614.00
2	Rice	213175.00	5551220	26.04
3	Maize	2337.00	32450	13.89
4	Jowar	1140.00	10400	9.12
5	Bajra	3690.00	45220	12.25
6	Pulses (Kharif)	41606.00	32238	7.75
7	Ground nut	4278.00	48600	11.36
8	Sesumum (Til)	8451.00	9210	1.09
9	Soybean	18.00	230	12.52
10	Wheat	257158.00	9931520	38.61
11	Barley	260.00	7550	29.03
12	Gram	70.00	820	11.72
13	Pea	525.00	868	16.53
14	Lentil	31986.00	252690	7.90
15	Mustard	12770.00	111227	8.71

Source: District agriculture department.

#### 2.5. Weather data (2022)

S. No	Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
			Maximum	Minimum	
1	January -2022	26.50	22.70	3.40	82
2	February	29.00	27.30	5.20	68
3	March	5.00	36.80	10.10	68
4	April	0.00	37.80	16.10	54
5	May	30.00	36.60	22.60	59
6	June	30.00	39.50	25.30	69
7	July	80.00	34.00	25.80	81
8	August	92.90	33.20	26.10	79

#### 5.7. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbreed/Indigenous</i>	243848	-	-
Buffalo	316802	-	-
Sheep+Goats	277953	-	-
Pigs	24384	-	-
Rabbits	287	-	-
<b>Poultry</b>			
Hens	114247	-	-
<i>Desi</i>	28436	-	-
<i>Horse</i>	2807	-	-
Dog	75759	-	-

Category	Area (ha.)	Production (Mt.)	Productivity (kg/ha)
Fish	1910.285	5865.56	370.0
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

\*Statistical report

## 2.7 Details of Operational area / Villages

Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Sadar	Bhawalkhera, Madnapur, Kant, Dadraul	Badavan, Daudpur, Niyampur, Painabujurg, Tikri, Madnapur, Chndokha, Khaikhera, Mathana, Satwankhurd, Roshannagar, Guwari, Rampur Barkatpur, Basak, Kakrakalan Daulatpur, Niwari. Khutaria. Kapsera. Shahbajnagar., Gumta, Kuriyan Kalan and Akra-Rasulpur,	Rice, Wheat, Sugarcane, Ground nut, Potato, Urd, Lentil, Toria, Mustard / Mushroom production, Vermi-compost, Seed production, Animal husbandry, Vegetable production, Soil and water conservation, preservation of fruits and vegetables	<b>1. Non use of HYV seeds</b> 2. Non use of balance fertilizers 3. Non use of PP measures 4. Non use of sulphur and boron in oilseed crop	<b>1. Need to enhance productivity</b> 2. Need to promote INM and IPM 3. Need to adopt organic farming 4. To promote agro based activities like Mushroom cultivation and value addition
Powayan, Jalalabad, Tilhar	Sindhauli, Powayan, Jalalabad, Tilhar, Nigohi, Jaitipur, Banda, Khutar, Khudaganj, Mirzapur and Kalan	Barapur, Moorchha, Karnapur, ChakKanhau, Painakhurd, Siklapur, Mudiypawar, Nagariya, Nahil, Puraina, Dakia Hameednagar, Razau, Chadari, Benipur, Dahar, Mirzapur, Muria Kurmiyat, Mahuwa Pathak, Rautapur, Rajanpur, Dahar, Jallapur and Majhil etc.	----do-----	----do-----	----do-----

## 2.8 Priority thrust areas

S. No	Thrust area
1	ICM in cereals, pulse and oilseed crops
2	IPM & INM in cereals, pulse and oilseed crops
3	Use of bio-agent
4	Soil testing and fertility analysis
5	Seed and variety replacement
6	Protective vegetable nursery raising
7	Need to generate employment oriented entrepreneurship
8	Heat detection in milch animals
9	Balance animal feeding
10	Natural farming

## 3. TECHNICAL PROGRAMME

### 6. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
10	46	90.0	225
	(Animals 20)	22	90
		110 (Animals)	55
		Total 112 (110 Animals)	370

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
116	2390	2128	39910
04 (Sponsored)	200		

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples to be analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
200.0	20000	-	1200	1000

Quality seed distributed (q)	No. of saplings to be distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
200.00	20000	--	-



3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/Enterprises	Identified Problem	Interventions				Extension activities	Supply of seeds, planting materials etc.
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any		
1	Integrated Crop Management (ICM)	Groundnut	1.Non use of HYV seeds 2.Non use of sulphur& PP chemicals	-	FLD-Oilseed	Advance prod. Tech. of Groundnut	Advance prod. Tech	Pre. Sowing Trg. Meet. And Field day	HYV Seed@100kg/ha, Mancozeb+carbendazim@1.25kg/ha, Imidaclorid@0.25ltr/ha chlorpyriphos @4.0ltr/ha, Trichoderma @5 kg/ha
2	ICM	Til	1.Non use of HYV seeds 2.Non use of sulphur& PP chemicals	-	FLD-Oilseed	Advance Prod.Tech.of Til	Advance prod.Tech	Pre. Sowing Trg. Meet. And Field day	HYV Seed@5 kg/ha, Mancozeb+carbendazim @1.25kg/ha, Quanalphose @ 2.5 ltr/ha, Trichoderma @5kg/ha,
3	ICM	Urd	1.Non use of HYV seeds 2.Non use of sulphur&non use of weedicide	-	FLD-Pulses	Advance prod.Tech.of Urd	Advance prod.Tech	Pre. Sowing Trg. Meet. And Field day	HYV@15 kg/ha, Mancozeb+carbendazim@1.25kg/ha,Imidachloprid @ 0.25 ltr/ha, Quanalphose @ 2.5 ltr/ha, Trichoderma @5kg/ha
4	ICM	Mustard	1.Non use of HYV seeds 2.Non use of sulphur& PP chemicals	-	FLD-Oilseed	Advance prod.Tech.of Toria	Advance prod.Tech	Pre. Sowing Trg. Meet. And Field day	HYV Seed 5.0 kg/ha B.Sulphur @ 25 Kg/ha., Mancozeb+carbendazim @ 1.250kg/ha Imidachloprid @ 0.25L/ha
5	ICM	Lentil	Non use of HYV seed, Non use of sulphur& PP chemicals	-	FLD Pulses	Advance prod.Tech.of Lentil	Advance prod.Tech.of Lentil	----do---- -	HYV Seed 35 kg/ha Carbendazim+Mancozeb @ 1.250 kg/ha Imidachloprid @ 0.250 L/ha

6	IPM	tomato	Non use of PP Chemical		Mangt. of fruit borer	Advance prod. Tech. of Potato	Advance prod. Tech. of Potato	-----do--- ---	Thiomethoxam 25WG @ 1g/5lit water
7	Promotion of self employment	Mushroom Prod., Seed prod. Value addition ,Tailoring Backyard Poultry	Need to develop self employment	-	-	Production Technology/Skill	Mushroom Prod., Seed prod. Value addition, Tailoring ,	Training /Demos.	Training material as per need of the training/ 20 Birds/Demo
8	Nutrition Kitchen Gardening	HYV	Household Food Security	-	FLD on NKG	NKG	-	Training /demonstration	HYV Seeds of vegetables

### 3.1 Technologies to be assessed and refined

#### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flow er	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	02				01		01			04
Value addition						02				02
Integrated Pest Management				01						01
Integrated Disease Management	01									01
Small Scale income generating enterprises						01				01
<b>TOTAL</b>	<b>03</b>			<b>01</b>	<b>01</b>	<b>03</b>	<b>01</b>			<b>09</b>

#### A.2. Abstract on the number of technologies to be refined in respect of crops

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management	01							01
Disease of Management								
Value Addition								
Production and Management	01							01
Feed and Fodder								
Small Scale income generating enterprises								
<b>TOTAL</b>	<b>02</b>							<b>02</b>

#### A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises

## B. Details of On Farm Trial

### 1. OFT on Varietal evaluation of Wheat:

Crop/Enterprises	Wheat
Title of on-farm trial	Evaluation of <b>high yielding variety of</b> Wheat
Problem diagnosed	Low yield & heavy infestation of yellow rust due to use of old/traditional variety
Production system and thematic area	Sugarcane-Wheat-Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Farmers Practice (2967)
Details of technology selected for assessment/refinement	T2-DBW 187
Source of technology	SVPUAT, Meerut
No. of farmers	05 (Area- 0.4 * 5 = 2.0 ha.)
Replications/No. of locations	02
Critical input	Wheat seed (DBW 187)
Performance indicators i ) Technical ii ) Economic iii) Social	No. of Plants per sq/meter Total yield/ha, disease occurrence income B.C. ratio
Cost if each location	2000/-
Total Cost of OFT	10000/-
Name of Scientist	Dr. N.C. Tripathi (Professor, Agronomy)

### 2. OFT on Varietal Evaluation of Basmati :

Crop/Enterprises	Paddy
Title of on-farm trial	Varietal evaluation of Basmati
Problem diagnosed	Low yield & heavy blast and use of old/traditional variety
Production system and thematic area	Sugarcane-Wheat-Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Local (PB1509)
Details of technology selected for assessment/refinement	T2- Pusa Basmati 1692
Source of technology	SVPUAT Meerut
No. of farmers	05 (Area- 0.4 * 5 = 2.0 ha.)
Replications/No. of locations	02
Critical input	Seed (Pusa Basmati 1692)
Performance indicators i ) Technical ii ) Economic iii) Social	No. of Plants per sq/meter Total yield/ ha, disease occurrence income B.C. ratio
Cost if each location	600/-

Total Cost of OFT	3000/-
Name of Scientist	Dr. N.C. Tripathi (Professor, Agronomy)

### 3. OFT on Control of Top borer in Sugarcane:

Crop/Enterprises	Sugarcane
Title of on-farm trial	Control of Top borer in Sugarcane
Problem diagnosed	Low productivity of Sugarcane due to high infestation of Top borer
Production system and thematic area	Wheat- Sugarcane-Wheat and IPM
Farming situation	Irrigated
Farmer's practices	T1- Farmers practices ( No. treatment)
Details of technology selected for assessment/refinement	T2- Cartap Hydrochloride 4 G @ 25 Kg/ha +Trichocards@3x5/ha
Source of technology	SVPUA&T Meerut
No. of farmers	3 (Area- 0.4 * 3 = 1.2 ha.)
Replications/No. of locations	3
Critical input	1. Cartap Hydrochloride 4 G 2. Trichocards
Performance indicators i ) Technical ii ) Economic iii) Social	1. No. of clumps affected, 2. No. of tillers/clump 3. Germination % 4. NMC yield(q/ ha) B.C. ratio
Total Cost of OFT	5500/-
Name of Scientist	Dr. Nutan Verma (Professor, Plant Pathology)

### 4. OFT on Management of Sheath Blight in Paddy:

Crop/Enterprises	Paddy
Title of on-farm trial	Management of Sheath Blight in Paddy
Problem diagnosed	Severe infection of Sheath blight
Production system and thematic area	Wheat-Jowar-Rice
Farming situation	Irrigated
Farmer's practices	T1- Farmers practices ( No. treatment)
Details of technology selected for assessment/refinement	T2- Seed treatment with Tricyclazole@2g/kg seed+2 spray of Thifluzamide 24%SC @375ml/ha
Source of technology	SVPUA&T Meerut
No. of farmers	03 (Area- 0.4 * 3 = 1.2 ha.)
Replications/No. of locations	03
Critical input	Tricyclazole, Thifluzamide
Performance indicators i ) Technical ii ) Economic iii) Social	Disease severity Yield/ha B.C. ratio

Cost if each location	1600/-
Total Cost of OFT	4800/-
Name of Scientist	Dr. Nutan Verma (Professor, Plant Pathlogy)

### 5. Assessment of Urea Molasses Mineral Block

Crop/Enterprises	Cattle
Title	Assessment of Urea Molasses Mineral Block supplementation on Milk Production and Reproductive Performance in Lactating Cattle
Problem diagnosed	Low milk yield and infertility due to imbalance nutrients
Farming situation	Mixed farming
Thematic area	Mixed farming and feed and fodder management
Farmer's practices	Conventional method ( Use of choker and common salt)
Details of technology selected for assessment/refinement	
T1	Farmer's practice (Use of choker and common salt)
T2	UMMB supplementation (Licking) @ 300 to 400g/day/animal for 120 days
No of families	05 (One animal in each farmer)
Critical Inputs	UMMB 40 kg/animal for 120 days = 40 X 05 = 200 kg = 100 Block ( 2 kg in each block) = 100 X 100 Rs/Block) = 100 X 100 Rs/Block = 10000.00 Rs
Observation to be recorded	<p>i ) Technical</p> <ul style="list-style-type: none"> <li>- Estrus cycle (days)</li> <li>- Conception rate %</li> <li>- concentrate saving ( kg&amp; Rs.)</li> </ul> <p>ii ) Economic</p> <ul style="list-style-type: none"> <li>- Milk Yield ( Kg/lit)</li> <li>- C:B ratio</li> </ul> <p>iii) Social</p> <ul style="list-style-type: none"> <li>- Farmer's reaction</li> </ul>
Total Cost of OFT	Rs 5000/-
Name of Scientist	Dr. Shiv Kr Yadav (SMS, Livestock production)

### 6. OFT on Repeat Breeding:

Crop/Enterprises	Buffalo
Title	Assessment of clinical and non-clinical remedies in controlling repeat breeding
Problem diagnosed	Higher incidences of repeat breeding
Farming situation	Crop production and Animal husbandry
Thematic area	Disease (disorder) management
Farmer's practices	Use of choker and common salt

Details of technology selected for assessment/refinement	
T1	Farmer's practice (Use of choker and common salt)
T2	Mineral Mixture @ 50 g/d/animal for 45 days + inj. Receptal 2.5x2= 5 ml (72-96 hrs before AI)
No of families	15
Critical Inputs	Concentrate Feed, Mineral mixture and clinical drugs
Observation to be recorded	2.No. of cured animals 2. Cost: benefit ratio
Total Cost of OFT	Rs 25000/-
Name of Scientist	Dr. Shiv Kr Yadav (SMS, Livestock production)

### 7. OFT on Supplementary food:

Crop/Enterprises	Supplementary food
Title of on-farm trial	Evaluation of home nutrition supplementary food on health of infants/ babies
Problem diagnosed	Low body weight and height of below 03 years baby due to malnutrition / under nutrition
Production System and thematic area	Design and development of low cost and high nutrition efficient diet
Situation	-
Farmer's practices	T1- No feeding of Supplementary foods
Details of technology selected for assessment/refinement	T2- Supplementary food having amylase (ARF) germinated wheat + germinated moong bean + Sugar (10:05:05)
Source of technology	NIN, Hyderabad
No. of farmers	10
Critical Inputs	Supplementary food
Performance indicators i ) Technical ii ) Economic iii) Social	i ) Technical - Weight for height - Weight for age - Height for age ii ) Economic - Comparision with market available Supplementary foods iii) Social - Acceptability of Technology
Cost of each intervention	Rs 1500/-
Total Cost of OFT	10X1500=15000.00
Name of Scientist	Kr. Vidya Gupta (Scientist, Home Science)

### 8. OFT On fortification of Wheat flour with processed soyabean daal protein supplementary food.

Crop/Enterprises	Fortification of Wheat flour with Soy Protein
Title of on-farm trial	Evaluation of fortified ( processed soya bean daal + Wheat ) flour in daily diet of rural people
Problem diagnosed	Protein calorie mal nutrition among rural people
Production System and thematic area	Design and development of low cost and high nutrition efficient diet
Farmer's practices	T1 –low consumption of protein in daily diet
Details of technology selected for assessment/refinement	T2- Use of fortified (processed soya bean daal + Wheat) flour (1:9 ratio )
Source of technology	CIAE, Bhopal
No. of farmers	10
Critical Inputs	Soya bean grain
Performance indicators i ) Technical  ii ) Economic  iii) Social	i ) Technical - Weight for height - Weight for age - Haemoglobin level - Digestibility ii) Economic -comparison with market available supplementary food ( multi grain flour ) iii) Social - Acceptability of Technology - Feasibility of Technology
Cost of each intervention	Rs 2000
Total Cost of OFT	10X2000= 20000.00
Name of Scientist	Ms. Vidya Gupta (Scientist, Home Science)

### 9. OFT on evaluation of Marigold

Crop/Enterprises	Marigold
Title of on-farm trial	Varietal evaluation of Marigold
Problem diagnosed	Low yield due to use of local varieties
Thematic area	Production and management technology
Farming situation	Irrigated
Farmer's practices	T1- Farmer Practice (Use of local variety-Hawai Orange)
Details of technology selected for assessment/refinement	T2- ArkaBangara
Source of technology	IIHR, Banglore
No. of farmers	05
Replications	02
Critical Inputs	Seeds of Marigold variety - ArkaBangara
Performance indicators	

i ) Technical	No. of flower /plant, flower weight
ii ) Economic	Net profit (Rs./ha.)
iii) Social	Acceptability of technology
Cost of each Location	Rs 5000/-
Total Cost of OFT	5000x5=25000/-
Name of Scientist	Dr. S.K. Verma (Scientist, Horticulture)

#### 10. OFT on evaluation of Cucumber

Crop/Enterprises	Cucumber
Title of on-farm trial	Varietal Evaluation in Cucumber
Problem diagnosed	Low yield due to use of local variety
Thematic area	Production and management technology
Farming situation	Irrigated
Farmer's practices	T1- Farmer Practice (Local variety)
Details of technology selected for assessment/refinement	T2- Use of Hybrid Variety (Kashi Nutan)
Source of technology	IIVR, Varanasi
No. of farmers	05
Replications	02
Critical Inputs	Hybrid Variety Seed
Performance indicators	
i ) Technical	No. of fruit/plant, fruit weight
ii ) Economic	Net profit (Rs. /ha.)
iii) Social	Acceptability of technology
Cost of each Location	Rs 5000/-
Total Cost of OFT	5000x5=25000/-
Name of Scientist	Dr. S.K. Verma (Scientist, Horticulture)



### 3.2 Frontline Demonstrations

#### A. Details of FLDs to be organized

##### 1. CFLD

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers	Parameters identified
1	G.nut		ICM	HYV Seed@100kg/ha, Mancozeb+carbendazim@1.25kg/ha, Imidacloprid@0.25ltr/ha, Tricoderma@5kg/ha	Seed &Mancozeb+Carbendazim, Imidacloprid, Tricoderma	Kharif 2022	20.00	50	Yield, CB Ratio, Thousand Seed weight
2	Til		ICM	HYV Seed@5kg/ha, Mancozeb+carbendazim@1.25kg/ha, Quinolphose@2.5ltr/ha, Tricoderma@5kg/ha	Seed,Mancozeb+carbendazim, Quinolphose, Tricoderma	Kharif 2022	10.00	25	Yield, CB Ratio, Thousand Seed weight
3	Urd		ICM	HYV Seed@15kg/ha, Mancozeb+carbendazim@1.25kg/ha, Quinolphose@2.5ltr/ha, Tricoderma@5kg/ha	Seed, Mancozeb+carbendazim, Quinolphose, Tricoderma	Kharif 2022	10.00	25	Yield, CB Ratio, Thousand Seed weight
4	Mustard		ICM	HYV Seed@5kg/ha, Sulphur W.P.@2.5kg/ha, Imidacloprid@0.250ltr/ha, Tricoderma	Seed, Sulphur W.P., Imidacloprid, Tricoderma	Rabi 2022-23	20.00	50	Yield, CB Ratio, No. of Grains/pod
5	Lentil		ICM	HYV Seed@30kg/ha, Mancozeb+carbendazim@1.25kg/ha, Imidacloprid@0.25ltr/ha, Tricoderma@5kg/ha	Seed & Mancozeb+Carbendazim, Imidacloprid, Tricoderma	Rabi 2022-23	30	75	Yield, CB Ratio, No. of Grains/pod
<b>Total</b>							<b>90</b>	<b>225</b>	

### 3.2 Frontline Demonstrations

#### A. Details of FLDs to be organized

##### 1. CFLD (Oilseed and Pulses) Year 2023

Sl. No	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers	Parameters identified
1	G.nut	HYV	ICM	HYV Seed@100kg/ha, Mancozeb+carbendazim@1.25kg/ha, Imidacloprid@0.25ltr/ha, Trichoderma @5kg/ha	Seed &Mancozeb+Carbendazim, Imidacloprid, Trichoderma	Kharif 2023	20.00	50	Yield, CB Ratio, Thousand Seed weight
2	Til	HYV	ICM	HYV Seed@5kg/ha, Mancozeb+carbendazim@1.25kg/ha, Quinalphos @2.5ltr/ha, Trichoderma @5kg/ha	Seed,Mancozeb+carbendazim , Quinalphos, Trichoderma	Kharif 2023	10.00	25	Yield, CB Ratio, Thousand Seed weight
3	Urd	HYV	ICM	HYV Seed@15kg/ha, Mancozeb+carbendazim@1.25kg/ha, Quinalphos@2.5ltr/ha, Trichoderma @5kg/ha	Seed, Mancozeb+carbendazim, Quinalphos, Trichoderma	Kharif 2023	10.00	25	Yield, CB Ratio, Thousand Seed weight
4	Mustard	HYV	ICM	HYV Seed@5kg/ha, Sulphur W.P.@2.5kg/ha, Imidacloprid@0.250ltr/ha, Trichoderma	Seed, Sulphur W.P., Imidacloprid, Trichoderma	Rabi 2023- 24	20.00	50	Yield, CB Ratio, No. of Grains/pod
5	Lentil	HYV	ICM	HYV Seed@30kg/ha, Mancozeb+carbendazim@1.25kg/ha, Imidacloprid@0.25ltr/ha, Trichoderma @5kg/ha	Seed &Mancozeb+Carbendazim, Imidacloprid, Trichoderma	Rabi 2023- 24	30	75	Yield, CB Ratio, No. of Grains/pod
<b>Total</b>							<b>90</b>	<b>225</b>	

## 2. FLD on crops Other than Oil seed and Pulses

Sl. N.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers	Parameters identified
1	Basmati Rice	PB 1692	Evaluation of Basmati Rice	Seed @30kg/ha	Seed	Kharif-2023	2.00	05	Quality yield , CB Ratio
2	Hybrid Rice	Arize 6444/or as per availability	Evaluation of hybrideRice	Seed @15kg/ha	Seed	Kharif-2023	2.00	05	Quality yield , CB Ratio
3	Paddy	Improved weedicide Pretilachlor	IWM in Paddy	Weedicide Pretilachlor 50 EC@1.25 ltr/ha	Weedicide Pretilachlor	Kharif-2023	2.00	05	Quality yield , CB Ratio
4.	Paddy	HYV	INM	W.S Fertilizer	Fertilizer	Kharif 2023	4.0	10	Quality yield , CB Ratio
5.	Wheat	HYV	INM	W.S Fertilizer	Fertilizer	Rabi 2023-24	4.0	10	Quality yield , CB Ratio
6	Wheat	Improved Weedicide Clodinafop Propargyl	IWM in Paddy	Weedicide Clodinafop Propargyl 15WP@400gm/ha	Weedicide Clodinafop Propargyl	Rabi-2023-24	2.00	05	Quality yield , CB Ratio
7	Paddy	Arize 6444/or as per availability	IPM (Stem borer)	Cartap hydrochloride 4G@25kg/ha, Cartap hydrochloride50 SP @1ml/ltr	Cartap hydrochloride 4G, Cartap hydrochloride50SP	Kharif -2023	2.00	05	Percent affected plants
8	Potato	Kufri-Pukhraj or as per availability	IDM (Late Blight)	Mancozeb 75% @2.5 kg/ha and Mancozeb +Metalaxyl @1.25 kg/ha	Mancozeb 75% and Mancozeb +Metalaxyl	Rabi 2023-24	2.00	05	% Incidence , Yield , CB Ratio
9	Brinjal	Kashi Sandesh (Round)	ICM	Seed of Brinjal @250gm/ha	Seed of Brinjal	Kharif 2023	1.00	05	Quality yield , CB Ratio
10	Intercropping of onion in sugarcane	Bhima Kiran	----do---	Seed of onion @6Kg/ha	Seed of onion	Rabi 2023-24	1.00	05	Quality yield , CB Ratio

11	Harvesting of crops	-	Drudgery reduction	Use of improved sickle for harvesting of crops	Improved sickle	Year 2023	-	10	Physiological work output labour saving acceptability
12	Nutrition Kitchen Gardening	HYV of vegetables	Household Food Security	HYV seeds of vegetables	Mini seed kits of vegetables	Year 2023	-	20	Quality yield , CB Ratio, availability of vegetables /day/person
<b>Total</b>							<b>22.00</b>	<b>90</b>	

### Sponsored Demonstration (NFSM)

Season	Crop	Area (ha)	No. of farmers
Kharif 2023	Urd	10	25
	Til	10	25
	Ground Nut	20	50
Rabi 2023-24	Lentil	30	75
	Mustard	20	50
	<b>Total</b>	<b>90</b>	<b>225</b>

### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	8	January to December, 2023	800
2	Farmers Training	6	January to December, 2023	300
3	Media coverage	8	January to December, 2023	Mass
4	Training for extension functionaries	2	January to December, 2023	50

**C. Details of FLD on Enterprises**

**(i) Farm Implements: -**

**(ii) Livestock Enterprises**

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Dairy					
1. To control post calving anoestrus due to Endo parasitic infestation	Buffalo	25	50	Fenbendazole 3g + Ivermectin 100 mg /Buffalo/one dose Cost: Rs 90/Animal, Total Rs. 4500.00	1. Milk production 2. Animal respond 3. Animal conceived 4. Service period
2. To enhance milk production and breeding efficiency through use of mineral mixture	Buffalo	05	10	Min. Mix. 50gm/Animal/day For 40days Cost: Rs. 600/Animal Total Rs. 6000.00	1. Milk production 2. Animal respond 3. Animal conceived 4. Service period 5. CB ratio
3.To control mortality and enhanced growth due to high Endo parasitic infestation.	Buffalo calf	25	50	Albendazole + Ivermectin suspension 30 ML/calf/ two does Cost Rs 65/calf Total Rs.3250.00	1. Mortality rate 2.Growth rate
<b>Total</b>		<b>55</b>	<b>110</b>		

**3.8 Training (Including the sponsored and FLD training programmes):**

**c. ON Campus**

Thematic Area	No. of Courses	No. of Participants							Grand Total
		Others			SC/ST				
		Male	Female	Total	Male	Female	Total		
<b>(A) Farmers &amp; Farm Women</b>									
<b>I Crop Production</b>									
Weed Management	01	18	-	18	02	-	02	20	
Resource Conservation Technologies	02	36	-	36	04	-	04	40	
Water management	01	18	-	18	02	-	02	20	
<b>II Horticulture</b>									
<b>a) Vegetable Crops</b>									
Off-season vegetables	01	18	0	18	02	0	02	20	
Nursery raising	01	18	0	18	02	0	02	20	
<b>b) Fruits</b>									
Management of young plants/orchards	01	18	0	18	02	0	02	20	

Micro irrigation systems of orchards	01	18	0	18	02	0	02	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	-	18	02	-	02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	01	18	-	18	02	-	02	20
Poultry Management	01	18	-	18	02	-	02	20
Disease Management	02	36	-	36	04	-	04	40
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	-	18	18	-	02	02	20
Design and development of low/minimum cost diet	01	-	18	18	-	02	02	20
Designing and development for high nutrient efficiency diet	02	-	36	36	-	04	04	40
Storage loss minimization techniques	01	-	18	18	-	02	02	20
Value addition								
Income generation activities for empowerment of rural Women	01	-	18	18	-	02	02	20
Women and child care	01	-	18	18	-	02	02	20
<b>VI Plant Protection</b>								
Integrated Pest Management	03	54	-	54	06	-	06	60
Integrated Disease Management	02	36	-	36	04	-	04	40
Bio-control of pests and diseases	02	36	-	36	04	-	04	40
<b>VII Production of Inputs at site</b>								
Bio-fertilizer production	01	18	-	18	02	-	02	20
Vermi-compost production	01	18	-	18	02	-	02	20
Organic manures production	01	18	-	18	02	-	02	20
<b>VIII Capacity Building and Group Dynamics</b>								
Formation and Management of SHGs	02	36	-	36	4	-	4	40
<b>IX Others (Pl. Specify) Natural Farming</b>	03	54	-	54	6	-	06	60
<b>TOTAL</b>	<b>32</b>	<b>450</b>	<b>126</b>	<b>576</b>	<b>50</b>	<b>14</b>	<b>64</b>	<b>640</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production	02	16	0	04	04	0	04	20
Production of organic inputs	02	16	0	16	04	0	04	20
Vermi-culture	01	08	0	08	02	0	02	10
Nursery Management of Horticulture crops	02	16	0	16	04	0	04	20
Value addition	01		08	08	-	02	02	10
Production of quality animal products	03	24	-	24	6	-	06	30
Dairying	01	08	0	08	02	0	02	10
Sheep and goat rearing	01	08	0	08	02	0	02	10
Piggery	01	08	0	08	02	0	02	10
Poultry production	01	08	0	08	02	0	02	10
Tailoring and Stitching	01	-	08	08	-	02	02	10

Rural Crafts	02	-	16	16	-	04	04	20
<b>TOTAL</b>	<b>15</b>	<b>88</b>	<b>32</b>	<b>120</b>	<b>22</b>	<b>08</b>	<b>30</b>	<b>150</b>
<b>(C) Extension Personnel</b>								
Integrated Pest Management	02	50	-	50	10	-	10	60
<b>TOTAL</b>								
<b>G. Total</b>	<b>47</b>	<b>538</b>	<b>158</b>	<b>696</b>	<b>72</b>	<b>22</b>	<b>94</b>	<b>1090</b>

**d. OFF Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	0	36	04	0	04	40
Resource Conservation Technologies	02	36	0	36	04	0	04	40
Water management	01	18	0	18	02	0	02	20
Integrated Crop Management	03	54	0	54	06	0	06	60
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	01	18	0	18	02	0	02	20
Nursery raising	01	18	0	18	02	0	02	20
Others (Micro Irrigation system of vegetable crops)	01	18	-	18	2	-	02	20
<b>b) Fruits</b>								
Cultivation of Fruit	02	36	-	36	04	0	04	40
<b>c) Ornamental Plants</b>								
Nursery Management	01	18	-	18	02	-	02	20
Propagation techniques of Ornamental Plants	01	18	0	18	02	0	02	20
<b>d) Spices</b>								
Production and Management technology	01	18	0	18	02	0	02	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	18	0	18	02	0	02	20
Integrated Nutrient Management	01	18	0	18	02	0	02	20
Production and use of organic inputs	01	18	0	18	02	0	02	20
Nutrient Use Efficiency	01	18	0	18	02	0	02	20
Others (PMFVY) Natural Farming	02	36	-	36	04	-	04	40
<b>IV Livestock Production and Management</b>								
Dairy Management	05	90	0	90	10	0	10	100
Poultry Management	01	18	-	18	02	-	02	20
Disease Management	04	72	0	72	08	0	08	80
Feed management	01	18	-	18	02	-	02	20
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Designing and development for high nutrient efficiency diet	01	0	18	18	0	02	02	20

Minimization of nutrient loss in processing	01	0	18	18	0	02	02	20
Value addition	03	0	54	54	0	06	06	60
Income generation activities for empowerment of rural Women	01	18	0	18	02	0	02	20
Location specific drudgery reduction technologies	01	0	18	18	0	02	02	20
<b>VII Plant Protection</b>								
Integrated Pest Management	02	36	0	36	04	0	04	40
Integrated Disease Management	04	72	0	72	08	0	08	80
Bio-control of pests and diseases	01	18	0	108	02	0	02	20
<b>VIII Capacity Building and Group Dynamics</b>								
Formation and Management of SHGs(Ext.)	01	18	-	18	02	-	02	20
<b>TOTAL</b>	<b>47</b>	<b>720</b>	<b>126</b>	<b>846</b>	<b>80</b>	<b>14</b>	<b>94</b>	<b>940</b>
<b>(B) RURAL YOUTH</b>								
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	04	100	0	100	20	0	20	120
Integrated Pest Management	02	50	0	50	10	0	10	60
Rejuvenation of old orchards	01	25	0	25	05	0	05	30
Protected cultivation technology	01	25	0	25	05	0	05	30
Formation and Management of SHGs	01	25	-	25	05	-	05	30
Management in farm animals	04	100	0	100	20	0	20	120
Livestock feed and fodder production	03	75	0	75	15	0	15	90
Household food security	01	0	25	25	0	05	05	30
Women and Child care	01	0	25	25	0	05	05	30
Low cost and nutrient efficient diet designing	01	0	25	25	0	05	05	30
Production and use of organic inputs	02	50	0	50	10	0	10	60
Gender mainstreaming through SHGs								
Any other Natural Farming	01	25	0	25	05	0	05	30
<b>Total</b>	<b>22</b>	<b>475</b>	<b>75</b>	<b>550</b>	<b>95</b>	<b>15</b>	<b>110</b>	<b>660</b>
<b>G.Total</b>	<b>69</b>	<b>1195</b>	<b>201</b>	<b>1396</b>	<b>175</b>	<b>29</b>	<b>204</b>	<b>1600</b>

**C) Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	03	54	0	54	06	0	06	60
Resource Conservation Technologies	03	54	0	54	06	0	06	60
Water management	02	36	0	36	04	0	04	40
Nursery management	01	18	0	18	02	0	02	20
Integrated Crop Management	03	54	0	54	06	0	06	60
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	01	18	0	18	02	0	02	20



Off-season vegetables	01	18	0	18	02	0	02	20
Nursery raising	01	18	0	18	02	0	02	20
Others (Micro irrigation systems in vegetable crops)	01	18	0	18	02	0	02	20
<b>b) Fruits</b>								
Cultivation of Fruit	02	36	0	36	04	0	04	40
Management of young plants/orchards	01	18	0	18	02	0	02	20
Rejuvenation of old orchards	01	18	0	18	02	0	02	20
<b>c) Ornamental Plants</b>								
Nursery Management	01	18	0	18	02	0	02	20
Propagation techniques of Ornamental Plants	01	18	0	18	02	0	02	20
<b>d) Spices</b>								
Production and Management technology	01	18	0	18	02	0	02	20
<b>e) Medicinal and Aromatic Plants</b>								
Post harvest technology and value addition	01	18	0	18	02	0	02	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	02	36	0	36	04	0	04	40
Integrated Nutrient Management	01	18	0	18	02	0	02	20
Production and use of organic inputs	02	36	0	36	04	0	04	40
Nutrient Use Efficiency	01	18	0	18	02	0	02	20
<b>IV Livestock Production and Management</b>								
Dairy Management	06	108	0	108	12	0	12	120
Poultry Management	02	36	0	36	04	0	04	40
Disease Management	06	108	0	108	12	0	12	120
Feed management	01	18	0	18	02	0	02	20
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	0	18	18	0	02	02	20
Design and development of low/minimum cost diet	01	0	18	18	0	02	02	20
Designing and development for high nutrient efficiency diet	03	0	54	54	0	06	06	60
Minimization of nutrient loss in processing	01	0	18	18	0	02	02	20
Storage loss minimization techniques	01	0	18	18	0	02	02	20
Value addition	03	0	54	54	0	06	06	60
Income generation activities for empowerment of rural Women	02	0	36	36	0	04	04	40
Location specific drudgery reduction technologies	01	0	18	18	0	02	02	20
Women and child care	01	0	18	18	0	02	02	20
<b>VI Plant Protection</b>								
Integrated Pest Management	05	90	0	90	10	0	10	100
Integrated Disease Management	06	108	0	108	12	0	12	120
Bio-control of pests and diseases	03	54	0	54	06	0	06	60

Production of bio control agents and bio pesticides								
<b>VII Production of Inputs at site</b>								
Bio-fertilizer production	02	36	0	36	04	0	04	40
Vermi-compost production	01	18	0	18	02	0	02	20
Organic manures production	01	18	0	18	02	0	02	20
<b>(B) RURAL YOUTH</b>								
Mushroom Production	02	16	0	16	04	0	04	20
Seed production	02	16	0	16	04	0	04	20
Production of organic inputs	01	08	0	08	02	0	02	10
Nursery Management of Horticulture crops	02	16	0	16	04	0	04	20
Value addition	01		08	08	0	02	02	10
Dairying	01	08	-	08	02	-	02	10
Sheep and goat rearing	01	08	-	08	02	-	02	10
Piggery	01	08	-	08	02	-	02	10
Poultry production	01	08	-	08	02	-	02	10
Tailoring and Stitching	01	-	08	08	-	02	02	10
Rural Crafts	02	-	16	16	-	04	04	20
<b>TOTAL</b>	<b>15</b>	<b>88</b>	<b>32</b>	<b>120</b>	<b>22</b>	<b>08</b>	<b>30</b>	<b>150</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	04	100	0	100	20	0	20	120
Integrated Pest Management	02	50	0	50	10	0	10	60
Integrated Nutrient management								
Rejuvenation of old orchards	01	25	0	25	05	0	05	30
Protected cultivation technology	01	25	0	25	05	0	05	30
Management in farm animals	02	50	0	50	10	0	10	60
Livestock feed and fodder production	07	175	0	175	35	0	35	210
Household food security	01	0	25	25	0	05	05	30
Women and Child care	01	0	25	25	0	05	05	30
Low cost and nutrient efficient diet designing	01	0	25	25	0	05	05	30
Production and use of organic inputs	02	50	0	50	15	0	15	60
<b>TOTAL</b>	<b>22</b>	<b>475</b>	<b>75</b>	<b>550</b>	<b>95</b>	<b>15</b>	<b>110</b>	<b>660</b>
<b>G. Total</b>	<b>116</b>	<b>1433</b>	<b>359</b>	<b>2092</b>	<b>247</b>	<b>51</b>	<b>298</b>	<b>2390</b>

Details of training programmes attached in **Annexure -I**

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	15	1000	300	1300	30	10	40	1030	310	1340
Kisan Mela	02	1000	250	1250	50	20	70	1050	270	1320
KisanGhoshi	35	1200	300	1500	60	25	85	1260	325	1585
Exhibition	06	1300	300	1600	120	30	150	1420	330	1750
Film Show	30	1000	100	1100	25	10	35	1000	110	1110
Farmers Seminar	02	200	50	250	20	05	25	220	55	275
Workshop	02	350	50	400	20	-	20	370	50	420
Group meetings	05	100	30	130	10	-	10	110	30	140
Lectures delivered as resource persons	300	22000	3200	25200	900	220	1120	22900	3420	26320
Newspaper coverage	160	-	-	-	-	-	-	-	-	Mass
Radio talks	10	-	-	-	-	-	-	-	-	Mass
TV talks	10	-	-	-	-	-	-	-	-	Mass
Popular articles	15	-	-	-	-	-	-	-	-	Mass
Extension Literature	08	-	-	-	-	-	-	-	-	Mass
<b>Advisory Services</b>	225	350	100	450	20	05	25	370	25	475
Scientist visit to farmers field	400	600	100	700	20	20	40	620	120	740
Farmers visit to KVK	250	500	100	600	30	15	45	530	115	645
Diagnostic visits	20	70	25	95	10	05	15	80	30	110
Exposure visits	02	100	20	120	10	05	15	110	20	130
Ex-trainees Sammelan	02	100	15	115	10	-	10	110	15	125
Soil health Camp	10	800	150	950	30	10	40	830	160	990
Animal Health Camp	01	100	10	110	20	-	20	120	10	130
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	02	100	10	110	10	-	10	110	10	120
Farm Science Club Conveners meet	02	30	10	40	-	-	-	30	10	40
Self Help Group Conveners meetings	02	200	50	250	20	05	25	220	55	275
Mahila Mandals Conveners meetings	02	-	40	40	-	10	10	-	50	50
Celebration of important days (Farm Innovators day)	10	1500	200	1700	100	20	120	1600	220	1820
Krishi Mahotasav	-	-	-	-	-	-	-	-	-	-

Krishi Rath	-	-	-	-	-	-	-	-	-	-
Pre Kharif workshop	-	-	-	-	-	-	-	-	-	-
Pre Rabi workshop	-	-	-	-	-	-	-	-	-	-
PPVFRA workshop	-	-	-	-	-	-	-	-	-	-
PMFBY Sammelan	-	-	-	-	-	-	-	-	-	-
Soil Health Cards distribution	600	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2128</b>	<b>32600</b>	<b>5410</b>	<b>38010</b>	<b>1515</b>	<b>415</b>	<b>1930</b>	<b>34090</b>	<b>5740</b>	<b>39910</b>

### 3.5 Target for Production and supply of Technological products

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qt.)	Distributed to the farmers (Nos.)
<b>CEREALS</b>				
	Paddy	PB-1509	100	
	Wheat	DBW-187	100	
<b>Total</b>			<b>200</b>	

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>			
	Guava	Lalit	300
	Citrus	Kagji lime	300
	Mango	Pusa Arunima	200
<b>VEGETABLES</b>			
	Tomato	Pusa Hybrid-8, Arka Vishal	5000
	Brinjal	Kashi Sandesh, Pusa Hybrid-6	5000
	Chilli	Arka Meghna, Kashi Anmol	5000
	Onion	PusaMadhvi	5000
<b>Total</b>			<b>20000</b>

#### BIO-PRODUCTS- Nil

#### LIVESTOCK-NA

6.6. Literature to be Developed/Published : 10 (10000)

#### (J) KVK News Letter/magazine

Date of start : July-2006

Number of copies to be published : 800 (Quartely)

**(B) Literature developed/published**

S.No.	Topic	Number
1	Research paper each scientist	03
2	Technical reports	05
3	News letters	-
4	Training manual all discipline	04
5	Popular article	12
6	Extension literature	04
<b>Total</b>		<b>28</b>

**(C) Details of Electronic Media to be produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	VCD	Mushroom Production Tech	2
2	VCD	Bee Keeping	2
3	VCD	Production Technology of hybrid rice	2
4	VCD	Control of Pod Borer in chick pea	2
5	VCD	Production of Vermi compost	2
6	VCD	Production of NADEP Compost	2
7	VCD	Products of Mango	2

**6.7. Success stories/Case studies identified for development as a case.****Success stories/Case studies identified for development as a case. -**

- a. Brief introduction
  - I. Boosting - income by Mushroom Production
  - II. Boosting income by Value Addition
  - III. Boosting income by Seed production
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for**

- **Practicing Farmers**
  - Based on survey and group discussion
  - Feed back from farmers/farm women
  - Based on local resources and prevailing farming system
- **Rural Youth**
  - Based on need assessment through PRA techniques
  - Need based, location specific analysis
- **Inservice personnel**
  - Based on demand on the requirement of the concerned organization
  - Based on knowledge gap and feedback information from in service personnel

### 3.9 Indicate the methodology for identifying OFTs/FLDs

#### For OFT :

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

#### For FLD :

- xlvi) New variety/technology
- xlvi) Poor yield at farmers level
- xlix) Existing cropping system
- l) Others if any

### 3.10 Field activities

- i. Name of villages identified/adopted with block name (from which year) : 02
- ii. No. of farm families selected per village : 120
- iii. No. of survey/PRA conducted : 120
- iv. No. of technologies taken to the adopted villages:
- v. Name of the technologies found suitable by the farmers of the adopted villages : -
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)  
:
- vii. Constraints if any in the continued application of these improved technologies : -

### 3.11. Activities of Soil and Water Testing Laboratory

- Status of establishment of Lab : Complete
- 1. Year of establishment : 2006
- 2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Spectophoto meter	1	106500.00
2	Flam Photo Meter	1	33430.00
3	Ph Meter	1	10350.00
4	Chemical Balance	1	87000.00
5	Water Distillation unit	1	85000.00
6	Kejeldal Apparatus digestion	2	43400.00
7	Refrigerator	1	12000.00
8	Oven	1	14500.00
9	Hotplate	1	8200.00
10	Microscope	1	4600.00
11	Conductivity meter	1	87500.00
12	Mechanical shaker	1	5270.00
13	Physical Balance	1	11990.00
14	Grinder	1	23252.00
15	MridaParikshak	02	
Total		17	

**3. Details of samples analyzed so far:**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples (Macro)	2000	1600	150	60000.00
Soil Samples (Micro)	1000	600	60	150000.00
Water Samples	-			
<b>Total</b>	<b>3000</b>	<b>2200</b>	<b>210</b>	<b>210000.00</b>

**4.0 LINKAGES**

**4.1 Functional linkage with different organizations**

<i>1. ICAR Insititutes</i>	<i>Technical advisement / consultation</i>
2. Zonal research centre& SAUs	Technical advisement / consultation
3.. U.P.Council of Sugarcane Research	Technical advisement / consultation
4. District line department	Joint diagnostic survey, Supply of seed Participation in meeting
5.Vinova Seva Ashram and other NGOs Functioning in the district	Receiving cooperation in executing KVK's Programme and their meetings and goshthies
6.IFFCO/KRIBHCO/NFL/NSC	Receiving cooperation in executing KVK's Programme and their meetings and goshthies
7. SBI/BOB	Receiving cooperation in executing KVK's Programme and their meetings and goshthies
8. Nehru Youa Kendra	Receiving cooperation in executing KVK's Programme and their meetings and goshthies
9. GannaKisanPrashikshanSansthan	Training, Goshthi, Meetings
10. NABARD	Technical advisement/consultation
11. Sugar Mill	Technical advisement/consultation

**4.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies**

a) Is ATMA implemented in your district : NA

**4.3 Give details of programmes under National Horticultural Mission: N.A.**

S. No.	Programme	Nature of linkage
1		
2		

**4.4 Nature of linkage with National Fisheries Development Board : N.A.**

S. No.	Programme	Nature of linkage
1		
2		

**5.0 Utilization of hostel facilities  
Accommodation available (No. of beds)-18**

Months	No. of Programmes	Trainee days (days stayed)
January 2022	2	20
February 2022	2	20
March 2022	2	20
April 2022	2	20
May 2022	2	20
June 2022	2	20
July 2022	2	20
August 2022	2	20
September 2022	2	20
October 2022	2	20
November 2022	2	20
December 2022	2	20
<b>Total</b>	<b>24</b>	<b>240</b>

**6. Convergence with departments:**

**7.1. Details of the programmes being implemented by your KVK in partnership with other institution: NIL**

**7.2. Brief achievements of above collaborative programmes: NIL**

**8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period (2022)**

S. No.	Name of Programme	Detailed Technical Achievements	Physical (infrastructural achievement)
1	<b>CFLD-NFSM Project (Pulses &amp; Oil Seed)</b>		
	<b>i. Kharif season</b>	<b>20.00 ha</b>	<b>-</b>
	<b>ii. Rabi season</b>	<b>20.00 ha</b>	<b>-</b>
2	<b>Soil Health Card</b>	<b>85</b>	<b>-</b>
	<b>Total</b>		

**9. Feedback of the farmers about the technologies demonstrated and assessed:**

- Increased income and productivity of the crop

**10. Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:**

- CFLD technology enhanced the production and productivity of the farmers.
- District average yield of pulses and oilseed crops also increased.
- Increased area under field pea, lentil, green gram black gram, til and groundnut etc.
- CFLD technology is suitable for the district Shahjahanpur.



## Training Programme

### i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
13.02.2023	PF	Water management in Rabi crops	01	18	-	18	2	-	2	20
10.06.2023	PF	Weed Management in Zaid Pulses	01	18	-	18	2	-	2	20
16.07.2023	PF	Direct seed and SRI Production technology	01	18	-	18	2	-	2	20
08.10.2023	PF	Rabi Pulse production FIRBS	01	18	-	18	2	-	2	20
<b>Horticulture</b>										
15.02. 2023	PF	Off season vegetable cultivation	01	18	-	18	02	-	02	20
05.06. 2023	PF	Management of young orchard	01	18	-	18	02	-	02	20
10.07. 2023	PF	Nursery raising of vegetable crops	01	18	-	18	02	-	02	20
21.11. 2023	PF	Micro irrigation system of orchard	01	18	-	18	02	-	02	20
<b>Livestock production</b>										
05.01.2023	PF/FW	FMD, RP, PPR: Prevention and control.	01	18	-	18	02	-	02	20
17.06.2023	PF/FW	BQ, HS, TRP: Prevention and control.	01	18	-	18	02	-	02	20
24.08.2023	PF	a) Parasitic diseases and importance of diseases. b) Zoonotic diseases and its importance.	01	18	-	18	02	-	02	20
22.11.2023	PF/FW	a) Calf feeding and health management. b) Clean Milk Production.	01	18	-	18	02	-	02	20
<b>Agril. Extension</b>										
21.01.2023	PF	Formation & Management of SHGS	01	18	-	18	02	-	02	20
14.02.2023	PF	Natural crop production technology	01	18	-	18	02	-	02	20
08.06.2023	PF	Soil fertility Management through organic manure	01	18	-	18	02	-	02	20
13.08.2023	PF	Formation & management of FPO	01	18	-	18	02	-	02	20
23.09. 2023	PF	Natural & organic crop production	01	18	-	18	02	-	02	20
15.12.2023	PF	Natural crop production technology								
<b>Home Sc.</b>										
20.04. 2023	PF	Small scale cottage industries for women empowerment	01	-	18	18	-	02	02	20
08.05. 2023	PF	Storage loss minimization techniques	01	-	18	18	-	02	02	20
15.06. 2023	PF	Importance of human health and hygiene	01	-	18	18	-	02	02	20
17.07.2023	PF	Importance of Coarse grains in diet	01	-	18	18	-	02	02	20
14.09.2023	PF	Low cost balance diet for children	01	-	18	18	-	02	02	20
11.10. 2023	PF	House hold food security by nutrition kitchen gardening	01	-	18	18	-	02	02	20

20.12.2023	PF	Designing and development for high nutrient efficient diet	01	-	18	18	-	02	02	20
<b>Plant Protection</b>										
05.05.2023	PF	IPM in Zaid Pulses	01	18	-	18	02	-	02	20
07.07. 2023	PF	IPM in Ground nut and till	01	18	-	18	02	-	02	20
04.08. 2023	PF	IDM in paddy	01	18	-	18	02	-	02	20
15.09. 2023	PF	IDM in Toria and mustard	01	18	-	18	02	-	02	20
27.10. 2023	PF	Biological control of major diseases of Rabi Vegetables	01	18	-	18	02	-	02	20
09.11.2023	PF	IPM in sugarcane	01	18	-	18	02	-	02	20
15.11.2023	PF	Biological control of pod borer in gram	01	18	-	18	02	-	02	20
		<b>Total</b>	<b>32</b>	<b>450</b>	<b>126</b>	<b>576</b>	<b>50</b>	<b>14</b>	<b>64</b>	<b>640</b>

**i) Farmers & Farm women (Off Campus)**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
17.02.2022	PF	Foliar application of soluble fertilizer in rabi oilseed and pulses	01	18	-	18	02	-	02	20
22.03.2022	PF	Residue management in wheat	01	18	-	18	02	-	02	20
23.03.2022	PF	Weed management in wheat	01	18	-	18	02	-	02	20
18.05.2022	PF	Integrated Weed Management in sugarcane	01	18	-	18	02	-	02	20
19.07.2022	PF	Foliar application of soluble fertilizer in crop production	01	18	-	18	02	-	02	20
13.09.2022	PF	Water Management in kharif pulses	01	18	-	18	02	-	02	20
16.09.2022	PF	Production Technology of autumn sugarcane and intercropping	01	18	-	18	02	-	02	20
28.10.2022	PF	Residue management in paddy	01	18	-	18	02	-	02	20
<b>Horticulture</b>										
22.02.2023	PF	Advanced cultivation techniques of turmeric and ginger	01	18	-	18	02	-	02	20
15.03.2022	PF	Advanced cultivation techniques of bottle guard	01	18	-	18	02	-	02	20
10.05.2023	PF	Advance cultivation techniques of papaya	01	18	-	18	02	-	02	20
28.06. 2023	PF	Cultivation practices of minor fruits	01	18	-	18	02	-	02	20
04.09. 2023	PF	Processing and value edition of medicinal crops	01	18	-	18	02	-	02	20

11.09.2023	PF	Nursery management of ornamental crops	01	18	-	18	02	-	02	20
30.10.2023	PF	Advanced cultivation techniques of marigold	01	18	-	18	02	-	02	20
04.12.2023	PF	Micro irrigation systems in vegetable crops	01	18	-	18	02	-	02	20
<b>Live Stock Production.</b>										
14.07.2023	PF	Various types of diseases and insects affecting animal health	01	18	-	18	02	-	02	20
02.02.2023	PF	Importance of mineral mixture in reproduction of livestock farming.	01	18	-	18	02	-	02	20
05.08.2023	PF	Scientific production of broiler and layer	01	18	-	18	02	-	02	20
08.06.2023	PF	Animal reproductive cycle: symptoms of heat and methods of heat detection	01	18	-	18	02	-	02	20
23-06-2023	PF	Artificial insemination and Pregnancy diagnosis:	01	18	-	18	02	-	02	20
10.10.2023	PF	Treatment techniques to improve nutritive value & digestibility of wheat and paddy straw.	01	18	-	18	02	-	02	20
08.11.2023	PF	Mastitis: prevention and control.	01	18	-	18	02	-	02	20
06.04.2023	PF	Vaccination schedules of livestock.	01	18	-	18	02	-	02	20
19.04.2023	PF	Various causes of abortion in animals	01	18	-	18	02	-	02	20
04.05.2023	PF	Care and management of: a) Dry and pregnant animals. b) Newly born calf and heifers.	01	18	-	18	02	-	02	20
23.05.2023	PF	Common reproductive diseases in cattle & buffalo.	01	18	-	18	02	-	02	20
<b>Agril. Extension</b>										
18.02.2023	PF	Natural & organic Farming technology	01	18	-	18	02	-	02	20
04.03.2023	PF	Vermi&nadep compost production technology	01	18	-	18	02	-	02	20
23.06.2023	PF	Tech. of soil sampling&soil health management	01	18	-	18	02	-	02	20
21.08.2023	PF	Natural forming technology	01	18	-	18	02	-	02	20
10.12.2023	PF	Soil fertility management through organic manure	01	18	-	18	02	-	02	20
18.12.2023	PF	Farmation& management of FPO	01	18	-	18	02	-	02	20
<b>Home Sc.</b>										
12.01.2023	PF	Balanced diet for pregnant and lactating women	01	-	18	18	-	02	02	20
04.03.2023	PF	Income generation activities for empowerment of rural women	01	-	18	18	-	02	02	20
08.06.2023	PF	Preparation of mango product	01	-	18	18	-	02	02	20
05.08.2023	PF	Drudgery reduction farm implements	01	-	18	18	-	02	02	20
13.09.2023	PF	Preparation of aonla product	01	-	18	18	-	02	02	20
04.10.2023	PF	Home scale soya bean processing	01	-	18	18	-	02	02	20
06.11.2023	PF	Minimization of nutrient loss during processing of fruit and vegetables	01	-	18	18	-	02	02	20

<b>Plant Protection</b>										
03.01.2023	PF	IDM in sugarcane	01	18	-	18	02	-	02	20
03.06. 2023	PF	IPM in Kharif pulses	01	18	-	18	02	-	02	20
12.07. 2023	PF	IPM in paddy	01	18	-	18	02	-	02	20
15.07. 2023	PF	IDM in Groundnut and Til	01	18	-	18	02	-	02	20
10.08. 2023	PF	Management of Sheath blight in paddy	01	18	-	18	02	-	02	20
04.10. 2023	PF	Biological control of major diseases of Gram and Lentil	01	18	-	18	02	-	02	20
08.11.2023	PF	IPM in potato	01	18	-	18	02	-	02	20
<b>Total</b>			<b>47</b>	<b>720</b>	<b>126</b>	<b>846</b>	<b>80</b>	<b>14</b>	<b>94</b>	<b>940</b>

**ii) Vocational training programmes for Rural Youth**

Crop / Enterprise	Identified Thrust Area	Training title	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Crop Protection	Mushroom Production	Oyster Mushroom Production Technology	06-10 Feb.2023	05	08	-	08	02	-	02	10
	Mushroom Production	Mushroom Production Technology	18-23 Sept.2023	06	08	-	08	02	-	02	10
Horticulture	Nursery Management	Nursery Management of vegetables Crops	12-17 June-23	06	08	-	08	02	-	02	10
Horticulture	Nursery Management	Nursery Management of fruits and ornamental Crops	17-22 July-23	06	08	-	08	02	-	02	10
Soil Health	Soil Health	Natural & organic farming technology	04-08 July 2023	05	08	-	08	02	-	02	10
Soil Health	Soil Health	Natural & organic product production technology	12-16 Nov 2023	05	08	-	08	02	-	02	10
Soil Health	Soil Health	Natural farming & preparation of products	15-19 dec 2023	05	08	-	08	02	-	02	10
Tailoring	Tailoring	Tailoring	09-28 May 23	20	-	08	08	-	02	02	10
Rural Craft	Rural Craft	Fabric printing techniques	21- 30 Aug.23	10	-	08	08	-	02	02	10
Rural Craft	Rural Craft	Soft toy making	14-13 Nov., 23	10	-	08	08	-	02	02	10
Value addition	Value addition	Preservation of Fruit and Vegetables	07-12 Feb 23	06	-	08	08	-	02	02	10
Livestock	Dairy Farming	Organized Dairy Farming & Management	Dec- 23	06	08	-	08	02	-	02	10
Livestock	Goat Farming	Organized Goat Farming & Management	March-23	06	08	-	08	02	-	02	10
Livestock	Poultry farming	Scientific Poultry farming	July- 23	06	08	-	08	02	-	02	10
Livestock	Pig farming	Organized Pig Farming & Management	Sep- 23	06	08	-	08	02	-	02	10
<b>Total</b>			<b>15</b>		<b>88</b>	<b>32</b>	<b>120</b>	<b>22</b>	<b>08</b>	<b>30</b>	<b>150</b>

iii) Training programme for extension functionaries

Date	Client ele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Off Campus</b>										
28.01.2023	EF	Use of soluble fertilizer in Rabi crops	01	25	-	25	05	-	05	30
29.07.2023	EF	Insect pests and disease management in paddy	01	25	-	25	05	-	05	30
30.10.2023	EF	Insect pests and disease management in rabi pulses and oil seed crops.	01	25	-	25	05	-	05	30
17.05.23	EF	Weed Management in sugarcane crop	01	25	-	25	05	-	05	30
31.08.23	EF	Use of soluble fertilizer in kharif crops	01	25	-	25	05	-	05	30
22.11.23	EF	Water management in rabi crops	01	25	-	25	05	-	05	30
11.06.23	EF	Vermicompost Production technology	01	25	-	25	05	-	05	30
27.08.23	EF	Natural forming technology	01	25	-	25	05	-	05	30
12.12.23	EF	Vermicnadep compost production	01	25	-	25	05	-	05	30
17.02.23	EF	Formation & management of FPO	01	25	-	25	05	-	05	30
09.02.23	EF	Zoonotic diseases: prevention & control	01	25	-	25	05	-	05	30
06.12.23	EF	Recent advances in mastitis treatment	01	25	-	25	05	-	05	30
02.11.23	EF	Bio technology use in animal production	01	25	-	25	05	-	05	30
10.10.23	EF	Sex sorted semen and its use	01	25	-	25	05	-	05	30
09.08.23	EF	Methods of drying of animals on advance pregnancy.	01	25	-	25	05	-	05	30
01.09.23	EF	Cattle& buffalo waste management	01	25	-	25	05	-	05	30
01.03.23	EF	Castration: methods and precautions	01	25	-	25	05	-	05	30
20.02.23	EF	Protected cultivation of vegetables	01	25	-	25	05	-	05	30
23.11. 23	EF	Management of old orchards	01	25	-	25	05	-	05	30
28.01.23	EF	Nutritional security by kitchen gardening	01	-	25	25	-	05	05	30
27.07.23	EF	Nutritional deficiencies diseases in children	01	-	25	25	-	05	05	30
28.09.23	EF	Importance of coarse grains in diet	01	-	25	25	-	05	05	30
<b>Total</b>			<b>22</b>	<b>475</b>	<b>75</b>	<b>550</b>	<b>95</b>	<b>15</b>	<b>110</b>	<b>660</b>

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
<b>e) Sponsored training programme</b>											
All Agricultural Subject	UP State	Formal	FTT	04	150	25	175	20	05	25	200



# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA SHAMLI**

## 1. General Information about the KVK

### 1.1. Name and address of the KVK

Address	Telephone		E-Mail	Website
	Office	FAX		
<b>KRISHI VIGYAN KENDRA, SHAMLI, DISTT. -SHAMLI (U.P.)</b>	9068289571		kvkshamli@gmail.com	shamli.kvk4.in

### 1.2. Name and address of the host organization

Address	Telephone		E-Mail	Website
	Office	FAX		
<b>DIRECTORATE OF EXTENSION</b> Sardar Vallabhbhai Patel University of Agriculture & Technolog, Meerut.	0121- 2888511	0121- 2888505 2888540	deesvpuat2014@gmail.com	svpuatmeerut.ac.in

1.2.1. Status of KVK website : [www.shamli.kvk4.in](http://www.shamli.kvk4.in)

1.2.2. No. of Visitors (Hits) to your KVK website (as on today) : NA

1.2.3. Status of ICT lab at your KVK : -

### 1.3. Name of the Head

Name	Telephone/ Contact		
	Office	Mobile	E-Mail
<b>Dr. Satish Kumar</b>	--	9068289571	<a href="mailto:kvkshamli@gmail.com">kvkshamli@gmail.com</a>

1.4. Year of Sanction : March 2018

### 1.5. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id
1	Head	Dr. Satish Kumar	Head	Ag. Ext.	37400-67000	10000	59830	27-12-96	Permanent	OBC	9068289571	<a href="mailto:kvkshamli@gmail.com">kvkshamli@gmail.com</a>
2	SMS	Dr. S.P. Singh	AD	Agronomy	37400-67000	9000	39880	11-12-03	Permanent	OBC	9458533805	sheeshpalsingh777@gmail.com
3	SMS	Dr. Omkar Singh	AD	Horticulture	37400-67000	9000	38900	17-12-03	Permanent	SC	9410484705	<a href="mailto:dr.omkarsingh1977@gmail.com">dr.omkarsingh1977@gmail.com</a>
4	SMS	Dr. Vikas Kumar	AP/ SMS	Plant Breeding	15600-39100	7000	31690	26-12-08	Permanent	OBC	9411448594	dr.vikas_malik@rediffmail.com
5.	SMS	Sh. Saqib Parvaze Allaie	SMS	Ag. Engg.	15600-39100	5400	56100	06.07.22	Permanent	GEN.	9149774325	saqib.parvaze@gmail.com.
6	SMS	Sh. Ajay Kumar	SMS	P.P.	15600-39100	5400	56100	06.07.22	Permanent	OBC	9799864546	akentoskrau@gmail.com
7	SMS	Smt. Kamyia Singh	SMS	H. Sc.	15600-39100	5400	56100	13.07.22	Permanent	GEN.	9161727112	kamyarajeev1922@gmail.com
8	Clerk	Sh. Chandra Shekhar Sharma	Clerk	Clerk	5200-20200	2800	44100	01.07.98	Permanent	GEN.	9760995757	cshaker570@gmail.com.
9	Driver	Sh. Subhash Chand	Driver	Driver	5200-20200	2400	33300	01.03.08	Permanent	OBC	9719818397	--
10	Supporting Staff	Sh. Satish Kumar Sharma	Messenger	IV Class	5200-20200	2400	37500	16.01.95	Permanent	GEN	7310696779	--
11	Attendant	Smt. Neelam Sharma	Attendant	IV Class	5200-20200	1800	20900	18-03-17	Permanent	GEN	9634732578	--



**1.6. Total land with KVK (in ha) : 8.55 ha.**

S.No	Item	Area (ha)
1.	Under Crops	6.00
2.	Others	2.55

**1.7. Infrastructure Development :**

**A) Building**

S. No.	Name of the building	Source of fund	Stage Complete			Required New	Needs renovation
			Completion date	Plinth area (Sq.m)	Expenditure (Rs.)		
1.	Administrative Building	ICAR	March 22		1.34 Crore	--	--
2.	Farmers Hostel	Nil	-			Yes	
3.	Staff Quarters (6)	Nil	-			Yes	
4.	Demonstration Unit(2)	Nil	-			Yes	
5.	Fencing	ICAR	31.03.08	1000 mtr	19.21 lac	Yes	
6.	Threshing floor	ICAR	31.03.08	300 sqm	2.33 lac	No	
7.	Farm Godown	Nil	-				
8.	Tube well	ICAR	--	--	2.48 lac	No	
9.	Irrigation Channel	ICAR	31.03.08	800 mtr	6.6 lac	Yes	

b). Vehicles: Jeep Bolero

c). Equipment's & AV Aids: Nil

**1.8. A. Details of SAC meeting to be Conducted in the year : Dec. 2022**

**2. Details of District (2022-23)**

**2.1. Major Farming System/ enterprises (based on analysis made by KVK)**

- S. Cane based + A.H+ Horticulture + Wheat and Paddy
- S. Cane based + A.H+ Horticulture + Fodder Crop + Wheat/Mustard & Paddy
- S. Cane based + A.H + Vegetable + Floriculture + Mustard
- S. Cane based + A.H + Horticulture + Urd/Moong

**2.2. Description of Agro climatic Zone & major agro ecological situations**

Sl. No.	AES	Characteristics of AES	Major Commodities	Farming System	Blocks
1.	AES-1	More than 85% Area, Sandy Loam Soil	S.Cane, Wheat, Rice, Jowar, Mango, Potato	S. Cane based + A.H+ Horticulture	Shamli
2.	AES-2	More than 95% irrigated, Loam	S.Cane, Wheat, Rice, Jowar, Mango, Guava, Litchi & Veg.	S. Cane based + A.H+ Horticulture	Thanabhawan
3.	AES-3	More than 95%, Sandy Loam	S.Cane, Wheat, Jowar, Brinjal, Cabbage, Gladiolus, Tuberose,	S. Cane based + A.H+ Vegetable+ Floriculture	Kairana
4.	AES-4	Low Water table area, Loam & Sandy Loam soil	S. cane, Wheat, urd, Jowar, Mango	S. Cane based + A.H + Horticulture	Khandla
5.	AES-4	Low Water table area, Loam & Sandy Loam	S. cane, Wheat, urd, Jowar, Mango	S. Cane based + A.H + Horticulture	Unn

		soil		
--	--	------	--	--

### 2.3. Soil Type/s-

S.No.	Soil Type	Characteristics		Area (ha)
		Soil particle Diameter (mm)	Water holding capacity	
1.	Sandy	2 - 0.2 mm,	Poor	
2.	Sandy loam	0.2 - 0.02 mm,	Medium	
3.	Loam	0.02 - 0.002 mm	Average	
4.	Clay loam	>than 0.002 mm	Good	
		<b>Total</b>		

### 2.4. Area, Production & Productivity of major crops cultivated in the district-

S.N	Crop	Area (ha)	Productivity (Qt./ha)
1.	Sugarcane	61358	1014.00
2.	Wheat	49142	41.25
3.	Paddy	8200	39.70
4.	Urd	350	8.30
5.	Lentil	89	6.90
6.	Gram	60	9.65
7.	Pea	170	12.57
8.	Mustard	951	9.86
9.	Potato	96	230.00

### 2.5. Weather Data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
-				

### 2.6. Production & Productivity of Livestock, Poultry, Fisheries in the district

Category	Population	Productivity
<b>Cows</b>		
Crossbred	86114	6.31
Indigenous	100	3.25
<b>Buffalo</b>	304719	5.90
<b>Sheep</b>		
Crossbred	3882	-
Indigenous	-	
<b>Goats</b>	28049	0.780
<b>Pigs</b>		
Crossbred	10171	40-50 kg per pig
Indigenous	-	
<b>Rabbits</b>		
<b>Poultry</b>		
Hens	350000	90%
Desi		

## 2.7. Details of Operation area/ Villages-

S. No.	Taluk	Name of Block	Name of village	Major crops & enterprises	Major problem identified	Identified Thrust areas
1.	Shamli	Kairana	Titoli	Sugarcane	Low yield due to imbalance fertilizer	Balance use of fertilizer
				Wheat	Low yield due to high infestation of weeds	Weed management
				Mustard	Poor yield due to aphid infestation	Insect mgt.
				Mango	Poor yield due to no use of micronutrients	Fertilizer management
2.	Shamli	Shamli	Jalalpur	Sugarcane	High infestation of insect & disease	Insect & disease mgt. through IPM
				Wheat	Low yield due to high infestation of weeds	Weed management
				Vegetables	Imbalance fertilizer application, Infestation of pest	Introduction of IPNM IPM
3.	Shamli	Kairana	Malendi	Sugarcane	Poor yield due to no use of organic matter	Promoting of organic manure
				Wheat	Low yield due to imbalance use of fertilizer	IPNM in Wheat
				Merigold	Use of local seed High infestation of disease	Introduction of HYV Disease mgt.
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
				Fodder Crops	Local Variety	Introduction of HYV
4.	Kairana	Kairana	Naglarai	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM
				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety

				Wheat	Low yield	Water management IPM, Weed mgt. Introduction of HYV
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM
5.	Shamli	Shamli	Jasala	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM
				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM Weed mgt. Introduction of HYV
				Fodder Crops	Local Variety	Introduction of HYV
6.	Shamli	Shamli	Silawar	Sugarcane	Low yield of Sugarcane	Introduction of HYV Balance fertilizer application IPNM & IPM
				Mango	Low yield of Mango	IPNM & IPM Rejuvenation of old orchard Introduction of regular bear variety
				Wheat	Low yield	Water management IPM, Weed mgt. Introduction of HYV
				Vegetables	Local variety, Imbalance fertilizer application, Infestation of pest	Introduction of HYV IPNM IPM

### 2.8. Priority Thrust Areas.

Crop/Enterprise	Thrust area
Sugarcane	Varietal replacement, IPNM, Weed management, IPM, IDM, Seed production
Wheat	Varietal replacement, INM, Weed management, IPM, IDM, Seed production,

	Foliar application of Micronutrients
Rice	Varietal replacement, IPNM, Weed management, Hybrid rice, IPM, IDM, Seed production
Mango	IPNM & IPM, Rejuvenation of old orchard, Introduction of regular bear variety
Vegetables	Varietal replacement, IPNM & IPM
Oilseeds & Pulses crop	Varietal replacement, Sulphur, Zinc application & IPM
Animals	Endo & Ecto parasite control, improving fertility, Repeat breeding.
Home Science	Value addition, Nutrition and Women empowerment
Ag. Engg.	Mechanization, Resource conservation and residue management

1. Promoting varietal and seed replacement in different crops.
2. Maintenance of soil productivity through soil test based nutrient management.
3. Promoting intercropping modules with Sugarcane
4. Popularizing Bio- pesticides for management of insect pests
5. Promoting quality floriculture as diversification enterprise for extra income generation.
6. Promoting quality vegetable nursery
7. Mineral mixture supplementation among animals for improving fertility
8. Promoting Group Approach of Extension through Women SHGs and Vallabh Krishak Clubs.
9. Promotion of value addition and healthy nutrition among farm/village women and children along with women empowerment
10. Promotion of mechanical measures and improved implements among farm workers for higher productivity and lower costs.

### 3. TECHNICAL PROGRAMME

#### A. Details of targeted mandatory activities by KVK

OFT		FLD	
1		2	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
12	57	57.20	192

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
119	2510	7418	20000

Seed Production (Qtl.)	Planting material Production (Nos.)	Fish seed prod. (Nos.)	Soil Samples analyzed (Nos.)	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
200	20000	--	--	--

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)
--	20000	--	--

### B. Abstract of interventions to be undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Trg. If any	Title of Trg. Of Ext. Personnel if any	Extension activities	Supply of seeds/ planting materials etc.
1.	Improving production & productivity of s. cane	Sugarcane	Low production & productivity of Sugarcane due to -- Late sowing -- Imbalance use of fertilizer -- Disease & insect infestation	- White grub mgt.	Mgt. of early shoot borer	Balance use of fertilizer  White grub mat.	Fertilizer mgt in S. cane	Field day	Pesticide & Bio Pesticide
2.	Potential productivity of Sugarcane	Sugarcane	Exponential Reduction productivity Dominant use of Nitrogen and Phosphorus only	Site Specific Nutrient Management	SSNM	Nutrient supply on Target yield basis	Trench Planting and use of SSNM	Field day Trainings	Nutrients in the form of Fertilizers
3.	To increase the productivity of Wheat.	Wheat	--Low production of Wheat due to use of local variety -- Weed infestation -- Late sowing of wheat -- Imbalance use of fertilizer - Deficiency of nutrients	Varietal evaluation  Nutrient Management	Weed mgt. Mgt. of karnal bunt & loose smut Nutrient Management	- Seed production of Wheat - Water mgt. - Weed mgt.	Introduction of HVY  --	Rabi Gosthi, Field day	Seed (HD3086, HD3059)  Secondary & Micronutrient
4.	Improving production & productivity of Rice	Rice	Low production & productivity of rice due to -- Poor varieties -- Imbalance use of fertilizer -- Disease & insect infestation	Varietal evaluation	Mgt. of Stem borer & rice neck blast -Weed mgt INM in Rice.	Crop prod. Mgt. IPM in rice  INM Soil test based	IPM in rice  INM in Rice	Field day	Seed(PB 1509, Vallabh 23) Bispyribac Sodium 10% @80 gm/ acre S & Zn apply on standing crop

5.	Improving production & productivity of vegetables	Cauliflower French bean Cabbage Chili Brinjal	Low production due to use of local variety --disease infestation -- Imbalance use of fertilizer	--	Introduction of HYV	Producing nursery raising techniques of vegetables & flowers	Scientific cultivation & IPM in vegetable crop	--do--	Improved seed
6.	Improving production & productivity of Oilseeds & Pulses	Mustard Urd	Low production & Productivity due to  -- Incidence of insect & disease -- Use of local variety -- Imbalance use of fertilizer -- lack of technical knowledge	--	Demo on HYV  -	-- IPM in Mustard crop -- Aphid control in Mustard crop. - Role of sulphar in Oilseed crop. --Use & importance of Raziobium culture in Pulses crop --Disease & insect mgt.	Scientific cultivation of oilseed & Pulses	Field days, Gosthi & Literature	Mustard Seed- Pusa Mustard 30/28 Urd- IPU 02-43 /PU – 28/31/40
7.	Improving production of green fodder	Makkhan Grass	Introduction of new Fodder crop	--	Introduction (of HYV) of Makkhan Grass	--	--	----	Seed
8.	Drudgery reduction among farm women	Farm women	Poor skill due to lack of technical knowledge	Drudgery reduction	---	Drudgery reduction of farm women by improved agriculture implements	--	Do----	Improved Stool
9.	Malnutrition among rural family	Kitchen garden	No production of vegetables at domestic level	--	-- Nutritive kitchen garden	-- Role of sprouted pulse -- Making of mango jam. -- Role of green leafy vegetables	-- Nutrient mgt. of pre-schoolers	--do--	Seed & Saplings of fruit & vegetables  Fruits & chemical preservatives
10.	Water Conservation	Paddy Sugarcane	Excess use of water	Drip irrigation in sugarcane	--	Water conservation in paddy and sugarcane	Water conservation in paddy and sugarcane	Field day Goshthi	--
11	Mechanization	Wheat Sugarcane	Mechanization	Land Levelling	Use of seed-drill	Mechanical sowing in wheat and sugarcane	Mechanical sowing in wheat and sugarcane	Field day Goshthi	Seed dril



### 3.1. Technologies to be assessed and refined

#### A.1. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	3	--	--	--	1	--		--	--	4
Weed Management	--	--	--	1	--	--	--	--	--	1
Integrated Nutrient Management	1	--		1	--	--	--	--	--	2
Drudgery reduction		--	--	1	--	--	--	--	--	1
Farm machineries	1	--	--	1	--	--	--	--	--	2
Integrated Pest Management	--	--	--	1	--	--	--	--	--	1
Integrated Disease Management	1	--	--	--	--	--	--	--	--	1
Resource conservation technology	1	--	--	2	--	--	--	--	--	3
Small Scale income generating enterprises	--	--	--	1		--	--	--	--	1
<b>TOTAL</b>	<b>5</b>	<b>--</b>	<b>--</b>	<b>7</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>13</b>

#### A.2. Abstract on the number of technologies to be refined in respect of crops : NIL

#### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Disease of Management	2	--	--	--	--	--	--	2
<b>TOTAL</b>	<b>2</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2</b>

#### A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises : NIL

## B. Details of each On Farm Trial

### 1. OFT on Varietal evaluation of Wheat:

Crop/Enterprises	Wheat
Title of on-farm trial	Evaluation of Bio fortified variety of Wheat
Problem diagnosed	Low yield & low nutritional value and use of old/ traditional variety
Production system and thematic area	Sugarcane-Wheat- Sugarcane
Farming situation	Irrigated
Farmer's practices	T1- Farmers practice (DBW 16)
Details of technologies selected for assessment/refinement	T2- WB-02
Source of technology	IIWBR Karnal
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	WB- 02
Performance indicators iv) Technical v) Economic vi) Social	No of Plants per sq/meter Total yield /ha B.C. ratio
Cost of each location	1650/-
Total Cost of OFT	4950/-
Name of Scientist	Dr. Vikas Kumar, SMS (Plant Breeding)

### 2. OFT on Varietal evaluation of Basmati Rice

Crop/Enterprises	<b>Paddy</b>
Title of on-farm trial	<b>Varietal evaluation of Basmati Rice</b>
Problem diagnosed	Low yield & heavy blast and use of old/ traditional variety
Production system and thematic area	Paddy-Wheat.
Farming situation	Irrigated
Farmer's practices	T1- Local (PB-1)
Details of technologies selected for assessment/refinement	T2 – Pusa Basmati 1637/1718 (as per availability)
Source of technology	IARI, New Delhi
No. of farmers	3 (Area – 0.4 x 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Seed ( Pusa Basmati 1637/1718)
Performance indicators i). Technical ii). Economic iii). Social	No of Plants per sq/meter Total yield /ha , Disease B.C. ratio
Cost of each location	1650/-
Total Cost of OFT	4950/-
Name of Scientist	Dr. Vikas Kumar, SMS (Plant Breeding)

### 3. OFT on Varietal evaluation of Cauliflower:

Crop/Enterprises	<b>Cauliflower</b>
Title of on-farm trial	Varietal evaluation of Cauliflower
Problem diagnosed	Low yield due to use of local variety
Thematic area	Production & management technology
Farming situation	Irrigated
Farmer's practices	T1- Farmer practices (Use of local variety )
Details of technologies selected for assessment/refinement	T2-Pusa Snowball KT-25
Source of technology	IARI, New Delhi
No. of farmers/ No. of locations	03
Replications	03
Critical input	Seed of Pusa Snowball KT-25,
Performance indicators i). Technical ii). Economic iii) Social	Yield, Disease incidence, Net profit (Rs/ha), Acceptability of technology
Cost of each location	1600/-
Total Cost of OFT	4800/-
Name of Scientist	Dr. Omkar Singh, AD (Horticulture)

### 4. OFT on Varietal evaluation of Marigold:

Crop/Enterprises	<b>Marigold</b>
Title of on-farm trial	Varietal evaluation of Marigold
Problem diagnosed	Low yield due to use of local variety
Thematic area	Production & management technology
Farming situation	Irrigated
Farmer's practices	T1- Farmer practices (Use of local variety )
Details of technologies selected for assessment/refinement	T2- Pusa Arpita
Source of technology	IARI, New Delhi
No. of farmers/ No. of locations	03
Replications	03
Critical input	Seed of Pusa Arpita,
Performance indicators i). Technical ii). Economic iii) Social	Yield, Disease incidence, Net profit (Rs/ha), Acceptability of technology
Cost of each location	1600/-
Total Cost of OFT	4800/-
Name of Scientist	Dr. Omkar Singh, AD (Horticulture)

### 5. OFT on Integrated Disease Management in Sugarcane

Crop/Enterprises	Sugarcane
Title of on-farm trial	<b>Management of Pokka boing in sugarcane</b>
Problem diagnosed	Low productivity of Sugarcane due to high infestation of pokka boing
Production system and thematic area	Wheat –Sugarcane- Wheat and IDM
Farming situation	Irrigated
Farmer's practices	T1- Mancozeb M 45+Carbandazim 50% WP
Details of technologies selected for assessment/refinement	T2- Copper Oxychloride 50% WP
Source of technology	S.V.P.U.A.& T., Meerut.
No. of farmers	3 (0.4 × 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Copper Oxychloride 50% WP
Performance indicators i). Technical ii). Economic iii). Social	1. No of clumps affected, 2. No of tillers/clump 3. Germination %, 4. NMC, 5. Yield (q/ha), B.C. ratio
Cost of each location	1000/-
Total Cost of OFT	3000/-
Name of Scientist	Sh. Ajay Kumar SMS (Plant Protection)

### 6. OFT on Integrated Pest Management in Mustard

Crop/Enterprises	Mustard
Title of on-farm trial	<b>Management of Aphid in Mustard</b>
Problem diagnosed	Severe infection of mustard aphid
Production system and thematic area	Paddy – Mustard – Sugarcane, IPM
Farming situation	Irrigated
Farmer's practices	T1- Farmer practices (No treatment)
Details of technologies selected for assessment/refinement	T2- Thiamethoxam 25 WG @ 150 gm/ha.
Source of technology	S.V.P.U.A.& T., Meerut.
No. of farmers/Plant	3
Replications/No. of locations	3
Critical input	Thiamethoxam 25 WG
-Performance indicators i). Technical ii). Economic	Insect pest severity Yield/ha B:C ratio
Cost of each location	1000/-
Total Cost of OFT	3000/-
Name of Scientist	Sh. Ajay Kumar SMS (Plant Protection)

### 7. OFT on Weed Management in Wheat:

Crop/Enterprises	Wheat
Title of on-farm trial	Weed management in wheat
Problem diagnosed	Low yield & heavy infestation of weed
Production system and thematic area	Sugarcane-Wheat- Sugarcane, Weed Mgt.
Farming situation	Irrigated
Farmer's practices	T1- Farmers practice (2,4-D)
Details of technologies selected for assessment/refinement	T2- Sulfosulfuron
Source of technology	IWBR Karnal
No. of farmers	3 (Area – 0.4 * 3 = 1.2 ha)
Replications/No. of locations	3
Critical input	Sulfosulfuron
Performance indicators vii) Technical viii) Economic ix) Social	No of Weeds per sq/meter Total yield /ha , Disease B.C. ratio
Cost of each location	1500/-
Total Cost of OFT	4500/-
Name of Scientist	Dr. S. P. Singh, AD (Agronomy)

### 8. OFT on Nutrient Management in Sugarcane:

Crop/Enterprises	Sugarcane
Title of on-farm trial	<b>Nutrient Management in Sugarcane</b>
Problem diagnosed	Lack of application of micronutrient in sugarcane.
Production system and thematic area	Sugarcane-Wheat- Sugarcane, INM
Farming situation	Irrigated
Farmer's practices	T1- Farmers Practices (NPK)
Details of technologies selected for assessment/refinement	T2 –Micronutrient
Source of technology	S.V.P.U.A.& T., Meerut.
No. of farmers /No. of locations	3
Replications	2
Critical input	Micronutrient
Performance indicators iv) Technical v) Economic vi) Social	No of Plants per sq/meter Total yield /ha , Income B.C. ratio
Cost of each location	1600/-
Total Cost of OFT	4800/-
Name of Scientist	DR. S. P. Singh ,AD (Agronomy)

### 9. OFT on Role of SHG in Income Generation

Title of On Farm Trial	Assessment of role of SHG for Income generation through preparation of different pulses and vegetable Badis
Problem Diagnosed	Low income of farm women due to lack of participation in decision making in income generating activities
Thematic Area	Value Addition and Small scale industry
Farmers practice	T1: Farmer Practice (without non-conventional income generating activities)
Details of Technology Selected for Assessment	T2: Preparation of Different pulses and vegetable BADIS by SHG members
Source of technology	APC, CIAE, Bhopal
Characteristics of Technology/Variety/ Product/ Enterprise	1.High in Proteins and Vitamins 2.Long Storage Life 3.High Palatability
Farming/ Enterprise Situation	Mixed farming
No. of Trials	A group of 10×2
Critical input	Pulses & Spices
Performance Indicator/ Parameter	Technical observations, Regular saving Saving used for income generation activities, Internal loaning, Keeping quality of value added product, Economic Indicator, Income through product, CB ratio
Cost of each location	2000/-
Total Cost of OFT	4000/-
Name of Scientist	Smt. Kanya Singh (H. Sc.)

### 10. OFT on Kadha for Improving Immunity

Crop/Enterprise	Nutrition addition	
Title of On-farm trial	Preparation of Kadha for Improving Immunity	
Problem diagnose	Weak immunity of farm women, children and farmers	
Farming situation	--	
Thematic area	Processing and value addition	
Farmers practices	T <sub>1</sub> : No use of homemade Kadha	
Details of technologies selected for assessment/refinement	T2 Preparation of Kadha (Giloye, Long, Dalchini etc.)	
Source of Technology	IISR, Kerala	
No. of farmers	04	
Critical input	Giloye, Long, Dalchini etc.	
Performance indicators i). Technical	Technical	To enhance the immune system in farm women, children & farmer
ii). Economic	Economic	C:B ratio
iii). Social	Social	Farmers reaction, feed back
Cost of each location	1000/-	
Total Cost of OFT	4000/-	
Name of Scientist	Smt. Kanya Singh Home Scientist	

### 11. OFT on Use of Mulcher in sugarcane

Crop/Enterprises	Sugarcane
Title of on-farm trial	<b>Performance of Mulcher in sugarcane</b>
Problem diagnosed	Burning of sugarcane crop residue
Production system and thematic area	Sugarcane mechanization
Farming situation	Irrigated
Farmer's practices	T1-Farmers Practice (Burning of sugarcane crop residue)
Details of technologies selected for assessment/refinement	T2 – Use of Mulcher in Sugarcane
Source of technology	IISR, Lucknow
No. of farmers	3 (Area – 1 Acre x 3 = 3.00 acre)
Replications/No. of locations	3
Critical input	Implement and tractor on custom hiring basis
Performance indicators i). Technical ii). Economic iii). Social	Total yield /ha B.C. ratio Farmer feedback
Cost of each location	1600/-
Total Cost of OFT	4800/-
Name of Scientist	Er. Saqib Parvaze Allaie (Agril. Engg.)

### 12. OFT on Laser Land Leveler

Crop/Enterprises	Wheat
Title of on-farm trial	Assessment of Laser Land levelling for crop production
Problem diagnosed	Inefficient irrigation and low yield
Production system and thematic area	Wheat- Mechanization
Farming situation	Irrigated
Farmer's practices	T1- Use of traditional leveling system
Details of technologies selected for assessment/refinement	T2 – Use of laser leveler
Source of technology	SVPUA&T, Meerut
No. of farmers	3 (Area – 1 acre x 3 = 3 acre)
Replications/No. of locations	3
Critical input	Implement and tractor on custom hiring
Performance indicators i). Technical ii). Economic iii).Social	No of Plants per sq/meter Total yield /ha B.C. ratio
Cost of each location	1600/-
Total Cost of OFT	4800/-
Name of Scientist	Er. Saqib Parvaze Allaie (Agril. Engg.)

### 3.2. FRONT LINE DEMONSTRATION

S. No.	Crop/ Season	Thematic Area	Technology for demonstration	Critical Input Required	Season & Year.	Area (ha)	No of Farmers/ Demons	Parameters. Identified
A.	<i>Crop Production</i>							
1.	Sugarcane	Water mgt	Water conservation through Trench method	-	Zaid 2023	4.0	10	Yield, Water use efficiency & B.C.Ratio
2.	Paddy	Weed mgt.	Weed control through Bispyribac-Sodium 10% SC (Nominee gold) @80 gm/ acre	Bispyribac-Sodium 10% SC (Nominee gold) @ 80 gm/ acre	Kharif 2023	4.0	10	Weeds/m <sup>2</sup> , Yield & B.C.Ratio
3.	Mustard	ICM	Seed + Sulphur (SSP) + thinning	Seed of Pusa Vijay @ 5 kg/ha + SSP	Rabi 2023-24	4.0	10	Yield, Disease & B.C.Ratio
4.	Wheat	Weed mgt.	Chemical weed control for broad and narrow weeds	Weedicide- Mesosulfuron+ Idosulfuron	Rabi 2023-24	4.0	10	Weeds/m <sup>2</sup> , Yield & B.C.Ratio
					<b>Total</b>	<b>16.0</b>	<b>40.0</b>	-
B.	<i>Horticulture</i>							
5.	Chilli	Maximum Prod.	HYV- Solder	Seed of Solder	Zaid 2023	1.00	10	Yield, Disease & B.C.Ratio
6.	Onion	Maximum Prod.	HYV – Pusa Madhvi	Seed of Pusa Madhvi	Rabi 2023-24	0.6	6	Yield, Disease & B.C.Ratio
7.	French bean	Maximum Prod.	HYV- Kashi Param	Seed of Kashi Param	Rabi 2023-24	0.6	6	Yield, Disease & B.C.Ratio
8.	Cauliflower	Maximum Prod.	HYV-Pusa snowball k-1	Seed of Pusa snowball k-1	Rabi 2023-2024	1.00	10	Yield, Disease & B.C.Ratio
					<b>Total</b>	<b>3.2</b>	<b>32</b>	
C.	<b>Plant Breeding</b>							
9.	Paddy	Maximum Prod.	PB-1509	Seed of PB 1509	Kharif 2023	4.0	10	Yield, Disease & B.C.Ratio
10.	Mustard	Maximum Prod.	PM-30	Seed of PM -30	Rabi 23-24	2.0	10	Yield, Disease & B.C.Ratio
11.	Wheat (Late)	Maximum Prod.	Varietal performance of HD-3059	Seed of HD-3271/PBW-771	Rabi 23-24	4.0	10	Yield, Disease & B.C.Ratio
12.	Sugarcane	Maximum Prod.	CoSa-17231	Seed of CoSa-17231	Rabi 23-24	4.0	10	Yield, Disease & B.C.Ratio
					<b>Total</b>	<b>14.0</b>	<b>40</b>	
D.	<b>Plant Protection</b>							



13.	Sugarcane	Insect pest mgt.	Control of Early Shoot Borer	Fipronil 40% + Imidacloprid 40% WDG @ 250 gm./ha.	Zaid 2023	4.0	10	No. of pests/m <sup>2</sup> , yield and B.C. ratio
14.	Paddy	IDM	Mgt. of false smut	Tebuconazole 25.9 EC @ 750 ml/ha	Kharif 2023	4.0	10	No. of infested plants/m <sup>2</sup> , yield and B.C. ratio
15.	Guava	Insect pest mgt.	Mgt. of fruit fly	Methyl Eugenol trap @15 Fly traps/ha	Kharif 2023	4.0	10	No. of infested plants/m <sup>2</sup> , yield and B.C. ratio
16.	Wheat	IDM	Mgt. of Karnal Bunt	Propiconazole (Tilt) 25 EC @ 1.0 Lt/ha	Rabi 23-24	4.0	10	No. of infested plants/m <sup>2</sup> , yield and B.C. ratio
					<b>Total</b>	<b>16.0</b>	<b>40</b>	
<b>F.</b>	<b>Agricultural Engineering</b>							
19.	Wheat	Farm Mechanization	Assessment of wheat sowing with ferti-seed drill	Seed cum ferti drill on custom hiring	Rabi 2023-24	4.0	10	Seed rate, Yield, B. C. Ratio
20	Sugarcane	Farm Mechanization	Proper deep ploughing before plantation of sugarcane	Implements on custom hiring	Kharif 2023	4.0	10	Yield, B. C. Ratio
					<b>Total</b>	<b>8.00</b>	<b>20</b>	
<b>G.</b>	<b>Home Science</b>							
20.	Mango	Value Addition	Mango Squash making from mango	Mango	Kharif 2023	-	10	Shelf life, Economics (Comparison of value against Market product)
21.	Nutritive kitchen Garden	Nutritional Security	Importance of kitchen garden for nutritional security	Vegetable seeds & fruit saplings	Rabi -23-24	1.0	10	Yield, Market Value
					<b>Total</b>	<b>1.0</b>	<b>20</b>	

### 3.3. CFLD

S. No.	Crop/ Season	Thematic Area	Technology for demonstration	Critical Input Required	Season & Year.	Area (ha)	No of Farmers/ Demons	Parameters. Identified
1.	Mustard	CFLD	Mustard varietal yield potential of PM-32	Seed, bio-fertilizer	Rabi 2023	10.0	25	Yield, B. C. Ratio
2.	Urd	CFLD	Urd varietal yield potential of PU-10	Seed, bio-fertilizer	Kharif 2023	10.0	25	Yield, B. C. Ratio
					<b>Total</b>	<b>20.0</b>	<b>50</b>	

### 3.4. Training (Including the Sponsored and FLD Training Programmes):

#### A. ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	02	36	--	36	04	--	04	40
Cropping Systems	02	38	--	38	02	--	02	40
Water management	03	59	--	59	01	--	01	60
Seed production	07	124	--	124	16	--	16	140
Fodder production	01	18	--	18	02	--	02	20
<b>Total</b>	<b>15</b>	<b>275</b>	<b>--</b>	<b>275</b>	<b>25</b>	<b>--</b>	<b>25</b>	<b>300</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Natural farming of vegetables	01	18	--	18	02	--	02	20
Management of young plants/orchards	02	38	--	38	02	--	02	40
<b>b) Ornamental Plants</b>								
Export potential of ornamental plants	01	18	--	18	02	--	02	20
<b>c) Tuber crops</b>								
Production and Management technology	01	19	--	19	01	--	01	20
<b>d) Medicinal and Aromatic Plants</b>								
Post harvest technology and value addition	01	18	--	18	02	--	02	20
<b>Total</b>	<b>06</b>	<b>111</b>	<b>--</b>	<b>111</b>	<b>09</b>	<b>--</b>	<b>09</b>	<b>120</b>
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	01	17	--	17	03	--	03	20
Integrated Nutrient Management	01	18	--	18	02	--	02	20
Production and use of organic inputs	01	18	--	18	02	--	02	20
Nutrient Use Efficiency	01	18	--	18	02	--	02	20
<b>Total</b>	<b>04</b>	<b>71</b>	<b>--</b>	<b>71</b>	<b>09</b>	<b>--</b>	<b>09</b>	<b>80</b>
<b>IV Home Science/Women empowerment</b>								
Storage loss minimization techniques	1	--	18	18	--	2	2	20
Value addition	2	--	36	36	--	04	04	40
Income generation activities for empowerment of rural Women	1	--	18	18	--	2	2	20
Women and child care	2	--	36	36	--	04	04	40
<b>Total</b>	<b>06</b>	<b>--</b>	<b>108</b>	<b>108</b>	<b>--</b>	<b>12</b>	<b>12</b>	<b>120</b>
<b>V Agril. Engineering</b>								
Repair and maintenance of farm machinery and implements	3	54	--	54	06	--	06	60
Cultivation	2	36	--	36	04	--	04	40
Drudgery reduction	1	18	--	18	02	--	02	20
Safe use of agriculture implements	1	18	--	18	02	--	02	20
Residue management	1	18	--	18	02	--	02	20
<b>Total</b>	<b>08</b>	<b>144</b>	<b>--</b>	<b>144</b>	<b>16</b>	<b>--</b>	<b>16</b>	<b>160</b>
<b>VII Plant Protection</b>								
Integrated Pest Management	02	36	--	36	04	--	04	40
Integrated Disease Management	02	36	--	36	04	--	04	40
Bio-control of pests and diseases	01	18	--	18	02	--	02	20
<b>Total</b>	<b>05</b>	<b>90</b>	<b>--</b>	<b>90</b>	<b>10</b>	<b>--</b>	<b>10</b>	<b>100</b>
<b>TOTAL (A)</b>	<b>44</b>	<b>691</b>	<b>108</b>	<b>799</b>	<b>69</b>	<b>12</b>	<b>81</b>	<b>880</b>

<b>(B) RURAL YOUTH</b>								
Mushroom Production	01	17	--	17	03	--	03	20
Bee-keeping	01	13	--	13	02	--	02	15
Seed production	02	26	--	26	04	--	04	30
Vermi-culture	01	13	--	13	02	--	02	15
Repair and maintenance of farm machinery and implements	01	17	--	17	03	--	03	20
Value addition	01	--	10	10	--	05	05	15
Poultry production	01	10	--	10	5	--	5	15
Tailoring and Stitching	01	--	10	10	--	05	05	15
Rural Crafts	01	--	20	20	--	10	10	30
Protected cultivation	01	17	--	17	03	--	03	20
Income generation	01	17	--	17	03	--	03	20
<b>TOTAL (B)</b>	<b>12</b>	<b>130</b>	<b>40</b>	<b>170</b>	<b>25</b>	<b>20</b>	<b>45</b>	<b>215</b>
<b>(C) Extension Personnel</b>								
<b>TOTAL ©</b>	--	--	--	--	--	--	--	--
<b>Grand Total (A+B+C)</b>	<b>56</b>	<b>821</b>	<b>148</b>	<b>969</b>	<b>94</b>	<b>32</b>	<b>126</b>	<b>1095</b>

**B. OFF Campus:**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	01	19	--	19	01	--	01	20
Water management	06	110	--	110	10	--	10	120
Seed production	09	169	--	169	11	--	11	180
Nursery management	01	17	--	17	03	--	03	20
Integrated Crop Management	01	18	--	18	02	--	02	20
<b>Total</b>	<b>18</b>	<b>333</b>	<b>--</b>	<b>333</b>	<b>27</b>	<b>--</b>	<b>27</b>	<b>360</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Export potential vegetables	01	20	--	20	--	--	--	20
<b>b) Fruits</b>								
Layout and Management of Orchards	02	36	--	36	04	--	04	40
Cultivation of Fruit	01	19	--	19	01	--	01	20
<b>c) Ornamental Plants</b>								
Export potential of ornamental plants	02	38	--	38	02	--	02	40
<b>Total</b>	<b>06</b>	<b>113</b>	<b>--</b>	<b>113</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>120</b>
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	03	53	--	53	7	--	7	60
Soil and Water Conservation								
Integrated Nutrient Management	01	18	--	18	2	--	2	20
Production and use of organic inputs	02	35	--	35	5	--	5	40
Nutrient Use Efficiency	02	36	--	36	04	--	04	40
<b>Total</b>	<b>8</b>	<b>142</b>	<b>--</b>	<b>142</b>	<b>18</b>	<b>--</b>	<b>18</b>	<b>160</b>

<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	01	--	18	18	--	02	02	20
Storage loss minimization techniques	02	--	36	36	--	04	04	40
Value addition	01	--	18	18	--	02	02	20
Location specific drudgery reduction technologies	01	--	18	18	--	02	02	20
Food Hygeine	02	--	36	36	--	04	04	40
<b>Total</b>	<b>07</b>	<b>--</b>	<b>126</b>	<b>126</b>	<b>--</b>	<b>14</b>	<b>14</b>	<b>140</b>
<b>VI Agril. Engineering</b>								
Soil & Water Conservation	03	54	--	54	06	--	06	60
Farm machinery and equipment	01	18		18	02	--	02	20
Sustainable energy	01	18		18	02	--	02	20
<b>Total</b>	<b>5</b>	<b>90</b>	<b>--</b>	<b>90</b>	<b>10</b>	<b>--</b>	<b>10</b>	<b>100</b>
<b>VII Plant Protection</b>								
Integrated Pest Management	07	130	--	130	10	--	10	140
Integrated Disease Management	02	37	--	37	03	--	03	40
<b>Total</b>	<b>9</b>	<b>167</b>	<b>--</b>	<b>167</b>	<b>13</b>	<b>--</b>	<b>13</b>	<b>180</b>
<b>TOTAL(A)</b>	<b>53</b>	<b>845</b>	<b>126</b>	<b>971</b>	<b>75</b>	<b>14</b>	<b>89</b>	<b>1060</b>

<b>(B) RURAL YOUTH</b>								
Vermi Culture	01	12	--	12	03	--	03	15
Nursery Management of Horticulture crops	01	11	--	11	04	--	04	15
Repair and maintenance of farm machinery	01	18	--	18	02	--	02	20
<b>TOTAL (B)</b>	<b>03</b>	<b>41</b>	<b>--</b>	<b>41</b>	<b>09</b>	<b>--</b>	<b>09</b>	<b>50</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	08	120	--	120	--	--	--	120
Integrated Pest Management	03	57	--	57	03	--	03	60
Integrated Nutrient management	04	35	--	35	05	--	05	40
Seed Treatment Technology	01	18	--	18	02	--	02	20
Soil and water conservation	01	15	--	15	--	--	--	15
Rejuvenation of old orchards	01	15	--	15	--	--	--	15
Formation and Management of SHGs	01	--	08	08	--	02	02	10
Household food security	01	--	8	8	--	2	2	10
Women and Child care	01	--	5	5	-	5	5	10
Low cost and nutrient efficient diet designing	01	--	5	5	--	5	5	10
Production and use of organic inputs	04	--	--	--	--	--	--	--
Flower Cultivation	01	15	--	15	--	--	--	15
ICT	01	18	--	18	2	--	2	20
Farm Machinery	01	18	--	18	2	--	2	20
Orchard mgt.	02	36	--	36	4	--	4	40
<b>TOTAL ©</b>	<b>31</b>	<b>347</b>	<b>26</b>	<b>373</b>	<b>18</b>	<b>14</b>	<b>32</b>	<b>405</b>
<b>Grand Total (A+B+C)</b>	<b>87</b>	<b>1233</b>	<b>152</b>	<b>1385</b>	<b>102</b>	<b>28</b>	<b>130</b>	<b>1515</b>

**C. Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	03	55	--	55	05	--	05	60
Cropping Systems	02	38	--	38	02	--	02	40
Water management	09	169	--	169	11	--	11	180
Seed production	16	293	--	293	27	--	27	320
Nursery management	01	17	--	17	03	--	03	20
Integrated Crop Management	01	18	--	18	02	--	02	20
Fodder production	01	18	--	18	02	--	02	20
<b>Total</b>	<b>33</b>	<b>608</b>	<b>0</b>	<b>608</b>	<b>52</b>	<b>0</b>	<b>52</b>	<b>660</b>
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Export potential vegetables	01	20	--	20	--	--	--	20
<b>Total</b>	<b>01</b>	<b>20</b>	<b>--</b>	<b>20</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>20</b>
<b>b) Fruits</b>								
Layout and Management of Orchards	02	36	--	36	04	--	04	40
Cultivation of Fruit	01	19	--	19	01	--	01	20
<b>c) Ornamental Plants</b>								
Export potential of ornamental plants	03	56	--	56	04	--	04	60
<b>d) Tuber crops</b>								
Production and Management technology	01	19	--	19	01	--	01	20
<b>e) Medicinal and Aromatic Plants</b>								
Post harvest technology and value addition	01	18	--	18	02	--	02	20
<b>Total</b>	<b>10</b>	<b>188</b>	<b>0</b>	<b>188</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>200</b>
<b>III. Agri Engg</b>								
Repair and maintenance of farm machinery and implements	3	54	--	54	06	--	06	60
Cultivation	2	36	--	36	04	--	04	40
Drudgery reduction	1	18	--	18	02	--	02	20
Safe use of agriculture implements	1	18	--	18	02	--	02	20
Residue management	1	18	--	18	02	--	02	20
<b>Total</b>	<b>8</b>	<b>144</b>	<b>0</b>	<b>144</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>160</b>
<b>IV. Home Science</b>								
Household food security by kitchen gardening and nutrition gardening	02	--	36	36	--	04	04	40
Design and development of low/minimum cost diet	01	--	18	18	--	02	02	20

Designing and development for high nutrient efficiency diet	02	--	36	36	--	04	04	40
Minimization of nutrient loss in processing	01	--	18	18	--	02	02	20
Storage loss minimization techniques	01	--	18	18	--	02	02	20
Value addition	04	--	72	72	--	08	08	80
Location specific drudgery reduction technologies	02	--	36	36	--	04	04	40
Women and child care	02	--	36	36	--	04	04	40
<b>Total</b>	<b>15</b>	<b>0</b>	<b>270</b>	<b>270</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>300</b>
<b>V Plant Protection</b>								
Integrated Pest Management	09	146	--	146	34	--	34	180
Integrated Disease Management	03	54	--	54	06	--	06	60
Bio-control of pests and diseases	01	18	--	18	02	--	02	20
<b>Total</b>	<b>13</b>	<b>218</b>	<b>0</b>	<b>218</b>	<b>42</b>	<b>0</b>	<b>42</b>	<b>260</b>
<b>Grand Total (A).</b>	<b>79</b>	<b>1158</b>	<b>270</b>	<b>1428</b>	<b>122</b>	<b>30</b>	<b>152</b>	<b>1580</b>

<b>(B) RURAL YOUTH</b>								
Mushroom Production	02	29	--	29	06	--	06	35
Bee-keeping	01	13	--	13	02	--	02	15
Seed production	02	26	--	26	04	--	04	30
Vermi-culture	02	25	--	25	05	--	05	30
Nursery Management of Horticulture crops	01	11	--	11	04	--	04	15
Value addition	01	10	--	10	05	--	05	15
Tailoring and Stitching	01	--	10	10	--	05	05	15
Rural Crafts	02	--	20	20	--	10	10	30
<b>TOTAL (B).</b>	<b>12</b>	<b>114</b>	<b>30</b>	<b>144</b>	<b>26</b>	<b>15</b>	<b>41</b>	<b>185</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	08	120	--	120	--	--	--	120
Integrated Pest Management	05	73	--	73	02	--	02	75
Integrated Nutrient management	04	35	--	35	05	--	05	40
Soil and water conservation	01	15	--	15	--	--	--	15
Rejuvenation of old orchards	01	15	--	15	--	--	--	15
Formation and Management of SHGs	01	--	08	08	--	02	02	10
Household food security	01	--	8	8	--	2	2	10
Women and Child care	01	--	5	5	-	5	5	10
Low cost and nutrient efficient diet designing	01	--	5	5	--	5	5	10
Flower Cultivation	01	15	--	15	--	--	--	15
Orchard mgt.	02	30	--	30	--	--	--	30
<b>TOTAL ©</b>	<b>26</b>	<b>303</b>	<b>26</b>	<b>329</b>	<b>7</b>	<b>14</b>	<b>21</b>	<b>350</b>
<b>Grand Total (A+ B+C)</b>	<b>117</b>	<b>1575</b>	<b>326</b>	<b>1901</b>	<b>155</b>	<b>59</b>	<b>214</b>	<b>2115</b>

### 3.5. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	465	10	475	--	--	--	462	10	475
Kisan Mela	02	900	100	1000	--	--	--	900	100	1000
Kisan Gosthi	10	2220	50	2270	--	--	--	2220	50	2270
Exhibition	02	900	100	1000	--	--	--	900	100	1000
Film Show	02	900	100	1000	--	--	--	900	100	1000
Farmers Seminar	6	142	--	142	--	--	--	142	--	142
Workshop	02	110	15	125	--	--	--	110	15	125
Group meetings	12	160	--	160	-	-	-	160	--	160
Lectures delivered as resource persons	40	2000	200	2200	25	--	--	2025	200	2225
Newspaper coverage	45	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Radio talks	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
TV talks	05	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Popular articles	10	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass	Mass
Extension Literature	12	-	-	6000	-	-	-	-	-	6000
<b>Advisory Services</b>										
Scientific visit to farmers field	170	1630	--	1630	--	--	--	1630	--	1630
Farmers visit to KVK	01	1450	50	1500	--	--	--	1450	50	1500
Diagnostic visits	50	135	5	140	8	2	10	143	7	150
Exposure visits	02	100	--	100	--	--	--	100	--	100
Ex-trainees Sammelan	04	160	10	170	--	--	--	160	10	170
Agri mobile clinic	7000	-	-	-	--	--	--	-	-	7000
Self Help Group Conveners meetings	10	-	135	135	--	--	--	-	135	135
Mahila Mandals Conveners meetings	10	-	140	140	--	--	--	-	140	140
Celebration of important days (specify)	04	300	50	350	20		20	320	50	370
Krishi Mohostva	01	500	20	520	10	--	10	510	20	530
Krishi Rath										
Pre Kharif workshop	01	400	15	415	20	--	20	420	15	435
Pre Rabi workshop	01	400	15	415	20	--	20	420	15	435
PPVFRA workshop	01	100	--	100	05	--	05	105	--	105
<b>Total</b>	<b>7420</b>	<b>12972</b>	<b>1015</b>	<b>19987</b>	<b>108</b>	<b>2</b>	<b>85</b>	<b>13077</b>	<b>1017</b>	<b>27097</b>

### 3.6. Target for Production and supply of Technological products

#### Seed Materials

Sl. No	Crop	Variety	Quantity (Qt)
<b>Cereals</b>			
1	Wheat (5.5ha)	DBW-187	270 qt

## Planting Material

Sl. No	Crop	Variety	Quantity (Nos )
<b>Vegetables</b>			
1	Tomato	Pusa Hybrid 2	7000
2	Brinjal	Pusa Purple long	5000
3	Chillies	Bio Marshal	5000
4	Cauliflower	Shweta	1500
5	Cabbage	G Ball – 65	1500
6	Onion	Agri found light red.	3500
7	Cucurbits	As per available	1500
<b>Fruit plants</b>			
1	Papaya	Pusa Nanha	500
<b>Total</b>			<b>25500</b>

## Bio-products & Others

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>Bio fertilizer</b>				
1	Vermi Compost	--	--	7000
2	Worms	<i>Aisenia Foetida</i>	--	15

### 3.7. Literature to be Developed/Published

A. Ganna Panchang : 1000

B. Literature developed/published :

Item	No.	Number of copies
Research papers	08	--
Technical reports	12	--
News letters	--	--
Technical bulletins	4	2500
Popular articles	15	--
Extension literature	8	8000
Others (Ganna Panchang)	01	1000
<b>TOTAL</b>	<b>55</b>	<b>11500</b>

### C. Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	CD	Scientific sugarcane seed production technology	01
		Scientific Paddy seed production technology	01
		Scientific Wheat seed production technology	01
		Scientific Veg. production technology	01

### 3.8. Success stories/Case studies identified for development as a case : 04

### 3.9. Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women - PRA
- Rural Youth - Nil
- In service personnel - As per requirement



### 3.10. Indicate the methodology for identifying OFTs/FLDs -

#### For OFT

7. Field level observations
8. Farmer group discussions
9. Spread of Problem (Area and No of Farmers)

#### For FLD

1. New variety/technology
2. Poor yield at farmers level
3. Existing cropping system

### 3.11. Field activities

#### i. Name of villages identified for adoption with block name

S. No.	Block	Village
1.	Kairana	Nagla Rai
2.	Shamli	Jalalpur
3.	Kandhala	Jasala
4.	Shamli	Silawar
5.	Kairana	Titoli
6.	Unn	Malandi

- ii. No. of farm families selected per village : 100 each
- iii. No. of survey/PRA to be conducted : 04
- iv. No. of technologies taken to the adopted villages: 3-4 technologies by each scientist
- v. Name of the technologies found suitable by the farmers of the adopted villages : To be taken up next year
- vi. Impact (production, income, employment, area/technological–horizontal/vertical) : To be taken up next year
- vii. Constraints if any in the continued application of these improved technologies : To be taken up next year

3.12. Activities of Soil and Water Testing Laboratory : Nil

3.13. Target for samples for analysis : Nil

## 4. LINKAGES

### 4.1. Functional Linkages with different Organizations :

S. No.	Name of organization	Nature of Linkages	No. of Prog.
1.	Agriculture Department	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela. Demo	85
2.	Horticulture Department	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	18
3.	Animal Husbandry Deptt.	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	5
4.	Plant Protection Deptt.	Joint Diagnostic Survey, Trg., Goshthi, Kisan Mela	10
5.	ATMA	Farmers Scientist Interaction, Trg., Goshthi, Kisan Mela, Exposure visit	20
6.	Sugarcane Research Institute	Participation in Meeting, Source of Planting material,	1
7.	Ganna Kisan Sansthan	Training Programme	8
8.	IFFCO, KRIBHCO, NFL, etc.	Training Programme & Demo. Goshthies	6
9.	National Horti. Dev.	Training Programme & Demo.	2

	Foundation		
10.	Sugar mills	Participation in Kisan Goshthi, Kisan Mela.	4
11.	NGO's	Training Programme, Gosthi & Mela	5
12.	NABARD, Banks	Training Programme, Kisan Club/SHG	12
13.	Ramganga Command Pariyojana	Training Programme	8
14.	Zila Vigyan Club	Training , Gosthies & Kisan Mela	4
15	Bhoomi Sanrakshan Adhikari	Training	4
16	Seed Development Corp.	Training,Seed production	4
17.	Distt. Cane Deptt.	Training, Kisan Mela, & Gosthi	15
18.	CDPO	Training Programme	3

#### 4.2. Special programme to be undertaken by KVK with finance by State/ Other Agencies

Name of Scheme	No of Programme	Funding agency
FTT	2	SVPUA&T, Meerut
ATMA (F-S Interaction)	2	Dept of Agril., Shamli
NHM (Trg. )	4	Dept of Horticulture ,Shamli

#### 4.3. Details of Linkages with ATMA

Is ATMA implemented in your district : Yes

#### 4.4. Programmes to be implemented under National Horticulture Mission

Sl.No	Programme	Nature of Linkages	Remarks
1.	Training Programme – 4	Technical	--

#### 4.5. Nature of linkages with National Fisheries Board

Sl.No	Programme	Nature of Linkages	Remarks
1.	Training	Technical	--

5. Utilization of hostel facilities : NA

No Accommodation available (No. of beds) :

6. Convergence with departments :--

7. Other

7.1. Details of the programmes being implemented by your KVK in partnership with other institution: Nil

S. No.	Name of Programme	Main Institution (IARI, DBT, DST, UPCAR, etc.)	Duration	Budget (in lakh)

C. Designated as Local Coordinator by DDG, NRM, ICAR for collaborative with Implementing ICAR Institutes. The ICAR Institutes involved are as under.

**D. Technology Demonstration in Collaboration with ICAR Institutes. The collaborative partners are as under**

**7.2. Brief achievements of above collaborative programmes**

<b>S. No.</b>	<b>Name of Programme</b>	<b>Salient achievement</b>	<b>Impact of the programme</b>
<b>1</b>	<b>The details are as given below</b>		

**8. Achievements (Both Technical and physical) of sponsored programmes (As applicable to your KVK) during the reporting period**

**9. Feedback of the farmers about the technologies demonstrated and assessed :**

**10. Feedback from the KVK Scientists (Subject wise) to the research institutions universities :**

## ANNEXURE – I

## DETAIL ACTION PLAN OF TRAINING JANUARY 2023 - DECEMBER 2023

## i). FARMERS/ FARM WOMEN

## a). On Campus Training for Practicing Farmers&amp; Farm Women:

Date	Client	Title of Training Programme	Duration (days)	Venue (Off/ On Campus)	No of Participants			No of SC/ST		Total
					M	F	Total	M	F	
<b>Ist Quarter</b>										
<b>Crop Production</b>										
Jan 23	PF	Ratoon management in Sugarcane	01	ON	17	--	17	3	--	20
March 23	PF	Integrated weed mgt. in sugarcane	01	ON	18	--	18	2	--	20
<b>Plant Breeding</b>										
Feb 23	PF	Farmer participatory natural farming seed production in sugarcane	01	ON	17	--	17	3	--	20
<b>Horticulture</b>										
March. 23	PF	Production technology of Cucurbitaceae vegetables	01	ON	18	--	18	2	--	20
<b>Plant Protection</b>										
Jan. 23	PF	Integrated disease management in wheat	01	ON	18	--	18	2	--	20
<b>Home Science</b>										
Jan 23	PF	Importance of jaggery and its products	01	ON	--	18	18	--	02	20
Feb 23	PF	Method of seedling raising using different media	01	ON	--	18	18	--	02	20
<b>Ag. Engineering</b>										
January-2023	PF	Repair & maintenance of plant protection equipment and its effective use	01	ON	18	0	18	2	0	20
February -2023	PF	Trench planting of sugarcane with pluses during spring season	01	ON	18	0	18	2	0	20
March-2023	PF	Drudgery reduction of farm women	01	ON	-	18	18	-	2	20
<b>IInd Quarter</b>										
<b>Crop Production</b>										
April 23	PF	Alternate irrigation mgt. in sugarcane	01	ON	18	0	18	2	0	20
<b>Plant Protection</b>										
April 23	PF	Use of organic and botanical insecticide in sustainable agriculture	01	ON	18	0	18	2	0	20
<b>Plant Breeding</b>										
April 23	PF	Natural farming in pulses crop	01	ON	19	--	19	1	--	20
<b>Horticulture</b>										
April 23	PF	Scientific cultivation of Papaya	01	ON	19	--	19	1	--	20
May 23	PF	Crop Regulation in Guava	01	ON	19	--	19	1	--	20

<b>Home Science</b>											
April 23	PF	Safe grain storage	01	--	--	18	18	--	02	20	
May 23	PF	Care of new born babies in summer.	01	--	--	18	18	--	02	20	
<b>Ag. Engineering</b>											
April-2023	PF	Safe use of thresher	01	ON		18	0	18	2	0	20
May-2023	PF	Maintenance of plough & harrow	01	ON		18	0	18	2	0	20
June-2023	PF	Use of improved implement for Paddy crop	01	ON		18	0	18	2	0	20
<b>IIIrd Quarter</b>											
<b>Crop Production</b>											
July 23	PF	Water mgt. in Rice	01	ON		20	--	20	--	--	20
Sept. 23	PF	Intercropping in autumn planted Sugarcane	01	ON		19	--	19	1	--	20
<b>Horticulture</b>											
July 23	PF	Medow gardening of Guava	01	ON		19	--	19	1	--	20
<b>Plant Protection</b>											
Sep. 23	PF	Integrated disease management in paddy	01	ON		18	--	18	2	--	20
<b>Plant Breeding</b>											
Sep.23	PF	Importance and selection of variety in September sown sugarcane.	01	ON		18		18	2	-	20
<b>Home Science</b>											
June 23	PF	Making of mango squash	01	--	--	18	18	--	02	20	
<b>Ag. Engineering</b>											
July-2023	PF	Care & maintenance of farm machinery for rainy season	01	ON		18	0	18	2	0	20
<b>IVth Quarter</b>											
<b>Crop Production</b>											
Dec. 23	PF	Water mgt. of late sown Wheat	01	ON		19	--	19	1	--	20
Dec-23	PF	Weed management in wheat	01	ON		18	--	18	2	--	20
<b>Horticulture</b>											
Nov. 23	PF	Production technology of Gladiolus	01	ON		18	--	18	2	--	20
<b>Plant Protection</b>											
Dec. 23	PF	Insect pest & disease management in vegetables	01	ON		18	--	18	2	--	20
<b>Plant Breeding</b>											
Oct. 23	PF	Varietal diversification and Quality Seed production technology of Mustard	01	ON		18	--	18	2	--	20
Nov. 23	PF	Preparation of natural farming component	01	ON		18	--	18	2	--	20
<b>Home Science</b>											
Sep 23	PF	Importance of nutrition during Nutrition Week	01	--	--	18	18	02	02	20	
<b>Ag. Engineering</b>											
Novemb er-2022	PF	Recent technology in In-situ Crop Residue Management (paddy)	01	ON		18	0	18	2	0	20

ii). Off Campus Training for Practicing Farmers & Farm Women :

Date	Client	Title of Training Programme	Duration (days)	Venue (Off/ On Campus)	No of Participants			No of SC/ST		
					M	F	Total	M	F	Total
<b>Ist Quarter</b>										
<b>Crop Production</b>										
Feb.23	PF	Production technology of autumn Sugarcane	01	OFF	18	--	18	2	--	20
March 23	PF	Water mgt. in Urd & Sugarcane intercropping	01	OFF	18	--	18	2	--	20
<b>Horticulture</b>										
Jan. 23	PF	Protected cultivation of Rose	01	OFF	19	--	19	1	--	20
<b>Plant Breeding</b>										
March 23	PF	Scientific Seed prod. of Sugarcane	01	OFF	19	--	19	1	--	20
March 23	PF	Role of natural farming in current scenario	01	OFF	18	--	18	2	--	20
<b>Plant Protection</b>										
Feb. 23	PF	Integrated pest management in tomato	01	ON	18	--	18	2	--	20
March 23	PF	Insect pest and disease management in mango	01	ON	18	--	18	2	--	20
<b>Home Science</b>										
Jan 23	PF	Value addition in amla	01	ON	--	18	18	--	02	20
Feb 23	PF	Planning of balanced diet for family.	01	ON	--	18	18	--	02	20
March 23	PF	Health & Hygiene of Family	01	OFF	--	18	18	--	02	02
<b>IInd Quarter</b>										
<b>Crop Production</b>										
April 23	PF	Alternate irrigation mgt. in Sugarcane	01	OFF	18	--	18	2	-	20
May 23	PF	Organic Farming of Paddy	01	OFF	17	--	17	3	--	20
June 23	PF	Water mgt. in Sugarcane	01	OFF	17	--	17	3	--	20
<b>Horticulture</b>										
April 23	PF	Drip Irrigation system in Fruit Crop	01	OFF	17	--	17	3	--	20
May 23	PF	Establishment of new orchards	01	OFF	17	--	17	3	--	20
<b>Plant Breeding</b>										
April 23	PF	Farmers participatory Quality Seed production technique of Mung.	01	OFF	17	--	17	3	--	20
May 23	PF	Seed production technology in Paddy	01	OFF	20	--	20	--	--	--
<b>Plant Protection</b>										
May 23	PF	Integrated pest management in sugarcane	01	OFF	18	--	18	2	--	20
June 23	PF	Management of white grub/termite in sugarcane	01	OFF	18	--	18	2	--	20
<b>Home Science</b>										
May23	PF	Safe grain storage	01	OFF	--	18	18	--	02	20
June 23	PF	Value Addition of Mango	01	OFF	--	18	18	--	02	20

### IIIrd Quarter

IIIrd Quarter										
<b>Crop Production</b>										
Aug. 23	PF	Prod. Technology of Mustard	01	OFF	18	--	18	2	--	20
Sept. 23	PF	Water mgt. practices for Rabi Pulses	01	OFF	18	--	18	2	--	20
<b>Horticulture</b>										
Aug. 23	PF	INM in Mango	01	OFF	20	--	20	--	--	--
<b>Plant Breeding</b>										
Sept. 23	PF	Seed production technique in mustard .	01	OFF	19	--	19	1	--	20
Sep 23	PF	Farmers participatory quality seed production of Sugarcane.	01	OFF	18		18	2	-	20
<b>Plant Protection</b>										
July 23	PF	Integrated pest management in basmati rice	01	OFF	18	--	18	2	--	20
Aug. 23	PF	Integrated disease management in sugarcane	01	OFF	18	--	18	2	--	20
Sept. 23	PF	Integrated pest management in urd bean	01	OFF	18	--	18	2	--	20
<b>Home Science</b>										
July 23	PF	Diet management in farm women for better health	01	OFF	--	18	18	--	02	20
Sept.23	PF	Kitchen Gardening –A healthy way of life	01	OFF	--	18	18	--	02	20
<b>Ag. Engineering</b>										
August-2022	PF	Important water conservation in paddy cultivation	01	OFF	18	0	18	2	0	20
September-2022	PF	Laser land levelling	01	OFF	18	0	18	2	0	20
<b>IVth Quarter</b>										
<b>Crop Production</b>										
Nov. 23	PF	Water mgt. in timely sown Wheat	01	OFF	19	--	19	1	--	20
Nov.23	PF	Organic Farming of wheat	01	OFF	19	--	19	1	--	20
Dec. 23	PF	Weed mgt. in Wheat	01	OFF	19	--	19	1	--	20
<b>Horticulture</b>										
Sep 23	PF	Natural farming of vegetable crops	01	OFF	20	--	20	--	--	20
Oct. 23	PF	Protected cultivation of Cucumber	01	OFF	20	--	20	--	--	20
Oct.23	Pf	Intercropping of onion with Sugarcane	01	OFF	20	--	20	--	--	20
Dec. 23	PF	Rejuvenation of old mango orchard	01	OFF	20	--	20	--	--	20
<b>Plant Breeding</b>										
Oct. 23	PF	Method of preparation for Jeeva Amrit and Ghan Jiva Amrit	01	OFF	19	--	19	1	--	20
Dec. 23	PF	Seed production technique of Wheat	01	OFF	18	--	18	2	--	20
<b>Plant Protection</b>										
Oct. 23	PF	Seed treatment in wheat	01	OFF	18	--	18	2	--	20
Nov. 23	PF	Integrated pest management in oil seed crop	01	OFF	19	--	19	1	--	20

<b>Home Science</b>										
Oct 23	PF	<b>Drudgery reducing techniques for house hold activities</b>	01	OFF	--	18	18	--	02	20
Dec 23	PF	<b>Post harvest management in Rabi season vegetables</b>	01	OFF	--	18	18	--	02	20
<b>Ag. Engineering</b>										
October-2022	PF	<b>Use of trickle irrigation in sugarcane</b>	01	OFF	18	0	18	2	0	20
November-2022	PF	<b>Different type of orchard sprayers</b>	01	OFF	18	0	18	2	0	20
December-2022	PF	<b>Use of environmentally friendly clean energy</b>	01	OFF	18	0	18	2	0	20

## ii). Vocational Training for Rural Youth

### ON Campus

Date	Discipline	Client	Title of Training Programme	Duration (days)	Venue (Off/On Campus)	No of Participants			No of SC/ST		
						M	F	Total	M	F	Total
<b>Ist Quarter</b>											
Feb. 23	Home Science	RY	Rural Crafts	06	ON	--	10	10	--	05	15
Feb. 23	Plant Protection	RY	Mushroom cultivation technique	06	ON	13	--	13	02	--	15
<b>IInd Quarter</b>											
May 23	Home Science	RY	Making mango pickles by different methods	05	ON	--	13	13	--	2	15
May-2023	Ag. Engineering	RY	Protected cultivation	05	ON	13	0	13	2	0	15
June-2023	Ag. Engineering	RY	Entrepreneurship in agriculture sector	05	ON	13	0	13	2	0	15
<b>IIIrd Quarter</b>											
Sept. 23	Plant Protection	RY	Commercial apiculture	06	ON	13	--	13	02	--	15
Sept. 23	Plant Breeding	RY	Scientific Seed production technique of aum. Sugarcane	06	ON	13	--	13	02	--	15
1-30 July 2023	Home Science	RY	Preparation of ecofriendly cleaning agent	30	ON	-	13	13	--	02	15
September-2022	Ag. Engineering	RY	Repair and maintenance of farm machinery and implements	05	ON	13	0	13	2	0	15
<b>IVth Quarter</b>											
Oct 23	Crop Production	RY	Vermi compost production technique & marketing	06	ON	13	--	13	2	--	15
Nov. 23	Horticulture	RY	Nursery raising techniques of cucurbits under low poly tunnel	07	ON	13	--	13	2	--	15
Nov. Dec. 23	Plant Breeding	RY	How to prepare natural farming components	06	ON	15	--	15	--	--	15



## OFF CAMPUS TRAINING PROGRAMME OF RURAL YOUTH:

<b>Ist Quarter</b>											
Feb. 23	Crop Production	RY	Vermi compost production technique & marketing	06	OFF	12	-	12	3	-	15
<b>IInd Quarter</b>											
<b>III<sup>rd</sup> Quarter</b>											
July 23	Horticulture	RY	Nursery raising techniques of ornamental and fruit plants.	06	OFF	11	--	11	4	--	15
<b>IVth Quarter</b>											

### iii). Training Programme of Extension Functionaries

Date	Discipline	Client	Title of Training Programme	Duration (days)	Venue (Off/ On Campus)	No of Participants			No of SC/ST			Total
						M	F	Total	M	F	Total	
<b>Ist Quarter</b>												
Feb. 23	Crop Production	EF	Water mgt. in Zaid pulses	01	OFF	15	--	15	5	--	5	20
Feb. 23	Horticulture	EF	Management of Mango Orchard.	01	OFF	18	--	18	2	--	2	20
Feb. 23	Horticulture	EF	Management of cucurbit veg.	01	OFF	18	--	18	2	--	2	20
Feb. 23	Plant Breeding	EF	Promising varieties and scientific seed production of Sugarcane.	01	OFF	18	--	18	2	--	2	20
Jan 23	Plant Protection	EF	Yellow rust management in Wheat.	01	OFF	18	--	18	2	--	2	20
March 23	Home Science	EF	Importance of Kitchen Garden for Nutritional security	01	OFF	--	18	18	--	02	02	20
March 23	Ag. Engineering	EF	Importance of green manuring and selection of crop for green manuring	01	OFF	18	--	18	2	--	2	20
<b>II<sup>nd</sup> Quarter</b>												
June 23	Crop Production	EF	Water mgt. Paddy	01	OFF	18	--	18	2	--	2	20
June 23	Plant Breeding	EF	Natural Farming	01	OFF	18	--	18	2	--	2	20
May 23	Plant Protection	EF	White grub management in Sugarcane.	01	OFF	20	--	20	--	--	--	20

April 23	Home Science	EF	Importance of balanced diet for healthy life	01	OFF	--	18	18	--	02	02	20
May 23	Ag. Engineering	EF	Care and maintenance of farm machinery and implements	01	OFF	18	--	18	2	--	2	20
<b>III<sup>rd</sup> quarter</b>												
Sept. 23	Crop Production	EF	Intercropping in autumn planted Sugarcane	01	OFF	18	--	18	2	--	2	20
Sept. 23	Plant Breeding	EF	Natural and organic farming	01	OFF	18	--	18	2	--	2	20
July 23	Plant Protection	EF	Management of yellow stem borer and leaf folder in paddy	02	OFF	18	--	18	2	--	02	20
Aug.23	Home Science	EF	Importance of balance nutrition for lactating mother	01	OFF	--	08	08	--	02	02	20
Aug 23	Ag. Engineering	EF	Improved agril. equipment's to increase yield	01	OFF	18	--	18	2	--	2	20
<b>IV<sup>th</sup> Quarter</b>												
Oct.23	Crop Production	EF	Nutrient & Weed management in timely sown wheat	01	OFF	18	--	18	2	--	2	20
Oct. 23	Plant breeding	EF	Scientific Seed prod. of wheat	01	OFF	18	--	18	2	--	2	20
Oct. 23	Plant Protection	EF	Seed treatment technology in Wheat.	01	OFF	20	--	20	--	--	--	20
Oct. 23	Home Science	EF	Importance of vaccination for mother and child	01	OFF	--	18	18	--	02	02	20
Nov 23	Ag. Engineering	EF	Application of ICT tools in technology transfer	01	OFF	18	--	18	2	--	2	20

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# **ACTION PLAN**

*January – December, 2023*



# **KRISHI VIGYAN KENDRA PILIBHIT**

**DETAILS OF ACTION PLAN OF KVKs DURING 2023**  
(1<sup>st</sup> January 2023 to 31<sup>st</sup> December 2023)

**1. GENERAL INFORMATION ABOUT THE KVK**

**1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail	Website
	Office	FAX		
KRISHI VIGYAN KENDRA, TANDA VIJAI, NEORIA, PILIBHIT-262305			kvkpilibhit@gmail.com	http://pilibhit.kv4.in

**1.2 .a. Name and address of host organization with phone, fax and e-mail**

Address	Telephone		E mail	Website
	Office	FAX		
SARDAR VALLABHBHAI PATEL UNIVERSITY OF AGRICULTURE & TECHNOLOGY, MEERUT – 250 110 (U.P.) INDIA.	(0121) 2411540	(0121) 2411511		svbpmeerut.ac.in

1.2.b. Status of KVK website : Yes/No - yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) :



1.2.d. Status of ICT lab at your KVK : Proposed

**1.3. Name of the Sr. Scientist & Head with phone & mobile no.**

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. Reena C Sethi		9412853202	<a href="mailto:kvkpilibhit@gmail.com">kvkpilibhit@gmail.com</a>

**1.4. Year of sanction: 2000**

### 1.5. Staff Position (as on 31Aug. 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)	Mobile No.	Email id	Please attach recent photograph
1	Scientist/ Officer Incharge	Dr. Reena Chadha Sethi	Professor	Home Science	37400-67000	10000	205600.00	19.08.95 01.06.13	P	Others	9412853202	rcsethi1964@rediffmail.com	
2	Scientist	Dr. Shailendra Singh Dhaka	Asso. Professor	Plant Protection	37400-67000	9000	152300.00	10.12.03 21.08.11	P	Others	9412114409	chssdhaka@gmail.com	
3	Scientist	Dr Amarjeet Singh Dhaka	SMS/ Asstt Prof.	Agronomy	15600-39100	8000	101100.00	23.06.08 02.07.22	P	OBC	9411341621	asrathi78yahoo.com	
4	Scientist	Dr Saurabh Tomer	SMS	Horticulture	15600-39100	5400	56100.00	01.07.22	P	OBC	9760189018	chaudhary.csa@gmail.com	
5	Scientist	Dr Deepak Kumar	SMS	Animal Sc.	15600-39100	5400	56100.00	01.07.22	P	SC	9760683716	deepakkumar1445@gmail.com	
6	Programme Asstt.	Akanksha Chauhan	Programme Assistant	Lab Technician	9300-34800	4200	55200.00	27.02.08 27.02.08	P	OBC	7351773929	aku12akansha1@gmail.com	
7	Computer Programmer	Sh. Praveen Kumar Bhaskar	Programme Assistant	Computer Programmer	9300-34800	4200	42300.00	10.04.16 10.04.16	P	SC	9758893880	praveenkumar23@gmail.com	
8	Farm Manager	Dr. Pushparaj Yadav	Programme Assistant	Farm Manager	9300-34800	4200	70000.00	10.12.03 01.07.22	P	OBC	9452215713	pushpraj.y@gmail.com	
9	Accountant / O.S.	Sh. N. S. Rathore	Office Supdt./ Accountant	---	9300-34800	4600	70000.00	10.12.03 01.07.22	P	Others	9452215713	rathore_ns@gmail.com	
10	Stenographer	Sh. M.N. Dimri	Jr.steno / Computer Operator	---	5200-20200	2400	56900.00	01.12.95 30.07.14	P	SC	8765649746	dimrimn@gmail.com	
11	Supporting staff	Sh. Mool Kumar	Office Attendant	---	4440-7440	1800	53600.00	15.12.08 15.09.21	P	Others	9457273887	mktyagi1973@gmail.com	

### 1.6. Total land with KVK (in ha) : 12.00

S. No.	Item	Area (ha)
1	Under Buildings	2.00
2.	Under Demonstration Units	0.15
3.	Under Crops	8.40
4.	Horticulture	1.45
	Total	12.00

**1.7. Infrastructural Development:  
(A) Buildings**

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (lac Rs)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2006	500	32.00	---	---	---
2.	Farmers Hostel	ICAR	2007	300	7.9	---	---	---
3.	Staff Quarters (6)	ICAR	2007	400	7.72	---	---	---
4.	Demonstration Units (2)	ICAR	2007	160		---	---	---
5	Fencing	ICAR	2009	1000 RM	4.72	---	---	---
6	Tube Well	ICAR	June07		2.25	---	---	---
7	Threshing floor	ICAR	June07	300	2.15	---	---	---
8	Farm godown	ICAR	June07	60	3.50	---	---	---
9	Irrigation Channel	ICAR	2007	800	4.00	---	---	---

**(B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
1 Splendor Motorcycle	03/06/05	40,256.00	21356	Condemned
1 Jeep (Marshal)	30/06/04	4,00,364.00	75925	Condemned
1 Sonalika Tractor	21/12/04	3,34,350.00		Very old
1 Rajdoot Motorcycle	13/07/00	Transferred	59677	Condemned

**(C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Diesel Pump 10 HP Kirloskar	3.01.2001	22481.00	Good
Steel Almira 37x19x78 with Machine Lock	22.03.2002	2856.00	Good
Steel Almira	20.03.2004		Good
Steel Almira 1980x860x480	13.10.2004	6555.00	Good
Steel Almira 1980x860x480	31.03.2006	3410.00	Good
1980x860x480	31.03.2006	3410.00	Good
1280x760x430	31.03.2006	4700.00	Good
Drum	14.12.2000	470.00	Good
Harrow 7x7 disc Bearing beam trailing type	31.01.2005	20300.00	Good
Cultivator 1 Tyne spring loaded	31.01.2005	10900.00	Good
Leveller 7' Size	31.01.2005	5200.00	Good
Board 6x4	21.11.2002	1980.00	Good
Board 10x3	19.03.2004	885.00	Good
Pin-up-board 3x4	31.03.2004	11000.00	Good
Stand Delux	31.03.2004	10400.00	Good
Tractor Trolley 3 ton 2 wheel	31.01.2005	56100.00	Good
Ridger Maker Disc Type	31.01.2005	7000.00	Good
Motorcycle Rajdoot	13.07.2000	Transferred	Good
Motorcycle Hero Honda	03.06.2005	40256.00	Good
Chair Wooden+foam	19.03.2001	6750.00	Good
Office Chair Cushioned	06.03.2003	1700.00	Good
Chair Armed Wooden	20.03.2004	4947.00	Good
Office Chair Dunlop Cushion	20.03.2004	5400.00	Good
Office Chair Armed	30.03.2004	550.00	Good
Chair Wooden	30.12.2004	3282.00	Good

Office Chair Armed seat Back	31.03.2006	27830.00	Good
Computer Chair Armless	31.03.2006	1510.00	Good
Officer Chair	06.03.2003	1700.00	Good
Bench Armed	31.03.2006	2600.00	Good
Stool Lab 460x350x650mm	31.03.2006	1250.00	Good
Pump Diesel Machine	22.06.2002	300.00	Good
Zero Till Fertiseed Drill	08.12.2001	Transferred	Good
Seed cum Ferti Drill 11 tyne double box center wheel drive	31.01.2005	18040.00	Good
Table 4x25x2.5	19.03.2001	3980.00	Good
Officer Table 1520x900x760mm	05.03.2003	5050.00	Good
Office Table	20.03.2004	22162.00	Good
Office Table 910x650x760mm	31.03.2006	4000.00	Good
Computer Table 1500x650x760mm	31.03.2006	5750.00	Good
Wooden Takht 1830x915x450mm	31.03.2006	2600.00	Good
Office Rack Wooden 915x305x760mm	31.03.2006	6560.00	Good
Steel Rack	19.03.2001	450.00	Good
Steel Book Cell 1675x840x305mm	06.03.2003	2899.50	Good
Steel Book Cell 1675x840x305mm	06.03.2003	2899.00	Good
Steel Book Cell	30.03.2004	9394.00	Good
Book Case 1675x840x305mm	31.03.2006	6720.00	Good
Padestal Fan	15.07.2001	Transferred	Good
Ceilling Fan T-Series 48''	18.03.2002	926.00	Good
Lock	19.01.2004		Good
Lock	18.10.2004	110.00	Good
Chain	18.10.2004		Good
Pipe	25.01.2004	312.00	Good
Secateur	11.03.2004	346.00	Good
Budding Knife	11.03.2004	250.00	Good
Shower	19.03.2004	180.00	Good
Slide Projector O.H.P.Nr. 6089-5 Kinderman	31.03.2004	Transferred	Good
Scanner HP	31.03.2004	3800.00	Good
CDRW Samsung CD Writer	31.03.2004	2200.00	Good
Iron Plates 15''x10''with Stand 4''Rod	25.08.2004	3625.00	Good
Board 3x2 with angle frame	25.08.2004	3375.00	Good
Tractor Sonalika DI 745III	21.12.2004	334350.00	Good
Sprayer cum Duster Aspee Bolo Motorised	31.01.2005	4650.00	Good
Wonowing Fan Power Drawn	31.01.2005	5270.00	Good
Computer	31.12.2003		Good
UPS			Good
Printer HP Laserjet 1000			Good
UPS	21.12.2004	2495.00	Good
Digital Still Camera Sony DSC-P 200	24.05.2006	21640.00	Good
Cooler Cooler With Tullu Pump	24.03.2005	2400.00	Good
Cooler Stand	28.03.2005	575.00	Good
Paddy Transplanter Yanki Shakti 8row 2ZT-238	30.09.2005	151667.00	Good
Tools 8 Pcs.	19.02.2007	1250.00	Good
LCD Projector Panasonic PT-PI SDEA	30.03.2007	64125.00	Good
SD Memory Card		4000.00	Good
LCD Screen Hygeine			Good
Inverter Hyundai 1400 VA	14.05.2007	7900.00	Good
Battery Exide 12 volts	14.05.2007	16600.00	Good
Trolley (Double Battery)	14.05.2007	1300.00	Good
Fax Machine Panasonic KX-FP 342	13.06.2007		Good
UPS Numeric Digital LI Series	13.06.2007		Good
Bicycle Hi-Bird Black HB 454273	22.09.2004	1825.00	Good

### 1.8. A). Details of SAC meetings to be conducted in the year

Sl.No.	Date
1. Scientific Advisory Committee	06.03.23

### 2. DETAILS OF DISTRICT

#### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
	The District is primarily agrarian with total geographical area 378384 ha of which 62.2% is under cultivation and large part of remaining area approx. 21.2% under forest cover. The net sown area is 2.35 lakh ha of which 2.25 lakh ha i.e., 96% is irrigated. More than 84% of land holdings are less than 2 ha comprising 49% of net sown area. The gross cropped area is 4.19 lakh ha and crop intensity of 1.78. Major crops include Paddy, Wheat, Sugarcane covering 40%, 38% and 20% of the gross cultivated area, respectively. The other crops raised in the district are Oilseed (Torai, Mustard), Pulses( Lentil,Urd, gram),Maize, Bajra, Vegetables and Fruits.The major enterprise of the district is livestock production.

#### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

##### a) Soil type

S. No	Agro-climatic Zone	Characteristics	Agro ecological situation	Characteristics
1	Tarai & Bhawar	The soil of district mainly made up of transported and deposited material of aluminum dominated rocks of Tarai region having pH 7.0 to 8.1. Normal rainfall is 1250mm and temperature between 4.5 and 47°C.	AES I	The soils of this region are mostly heavy with pH around 7.2. The main crops are paddy, wheat & Sugarcane.
2			AES II	The soils of the region are mostly heavy. Most of the area is under forest cover with high water table. Almost 95% cultivable area is irrigated.
3			AES III	The soils of the region are medium heavy to sandy.Most of the area is under Sugarcane Cultivation. This region is least fertile in comparison to other zones of the District.

#### 2.3 Soil Types

S N	Soil type	Characteristics	Area in ha (Block wise)						
			Marauri	Lalauri	Amaria	Barkhera	Bisalpu	Bilsanda	Puranpur
1.	Loam Soil	Well drain low organic matter deficient in NPK	8849 38%	7170 40%	13916 34%	8947 40%	9454 45%	13481 50%	30567 35%
2.	Sandy Loam Soil	Well drain low organic matter deficient in NP	11644 50%	8964 50%	19135 55%	11184 50%	9454 45%	9436 35%	48034 55%
3.	Sandy soil	Well drain low organic matter & medium texture soil.	2794 12%	1793 10%	1740 5%	2237 10%	2101 10%	4044 15%	4367 5%
4.	Clay Loam Soil	Water logged rich organic matter fine texture soil. Low NP & medium K available.	--	---	---	---	---	---	4367 5%

#### 2.4. Area, Production and Productivity of major crops cultivated in the district (2021-22)

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl/ha)
1	Wheat	158338	6613778.26	41.77
2	Paddy	143003	4304390.30	30.10
3	Sugarcane	87643	60334317.60	688.41

Source: District agriculture department.



## 2.5. Weather data (2022)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	12.43	N.A.	N.A.	N.A.	N.A.
February	13.72	N.A.	N.A.	N.A.	N.A.
March	10.61	N.A.	N.A.	N.A.	N.A.
April	12.69	N.A.	N.A.	N.A.	N.A.
May	15.73	N.A.	N.A.	N.A.	N.A.
June	67.32	N.A.	N.A.	N.A.	N.A.
<b>Total</b>	<b>309.38</b>				

## 6.8. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Cross bred</i>	15525		
<i>Indeginous</i>	107758		
<b>Buffalo</b>	187968		
<b>Sheep</b>	972		
<b>Goats</b>	86785		
<b>Pigs</b>	835		
<i>Crossbred</i>	8311		
<i>Indigenous</i>	3251		
<b>Rabbits</b>			
<b>Poultry</b>			
Hens	13284		
<i>Desi</i>	74986		
<b>Category</b>		<b>Production (Q.)</b>	<b>Productivity</b>
Fish (Reservoir)			

\*Statcal report

## 2.7 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Pilibhit	Marauri	Devipura	Sugarcane, Paddy, Wheat, Livestock	Old Varieties, Insect & disease infestation, Imbalance Feeding	Management of high incidence of pests and diseases in paddy and sugarcane, Maintenance of soil productivity through IPNM, Residue management to improve fertility of the soil, Management of high population of weeds in paddy and wheat, Balanced feeding of livestock round the year year, Nutrition management in children and farm women for better health
2	Pilibhit	Marauri	Santoshpura	Sugarcane, Paddy, Wheat, Livestock	Old Varieties, Insect & disease infestation, Imbalance Feeding	
3	Pilibhit	Marauri	Jaunapuri	Wheat, Paddy Sugarcane, Livestock	Old Varieties, Insect & disease infestation, Imbalance Feeding	
4	Bisalpur	Barkhera	Atkauna	Sugarcane, Paddy, Wheat, Livestock	Old Varieties, Insect & disease infestation, Imbalance Feeding	
5	Pilibhit	Lalauri	Shivpuriya	Paddy, Wheat, Sugarcane, Livestock	Insect & disease infestation, Fertility depletion.	

2.8 Priority thrust areas

S. No	Thrust area
1	IPM in rice, Wheat & sugarcane
2	Poor yield of basmati rice & scented indigenous.
3	Low organic matter contents in soil
4	Imbalance use of fertilizers in major crops
5	Non adoption of plant protection measures
6	Problem of insects, diseases & lack of micronutrients in orchards
7	Lack of improved breeds of buffalo and cows
8	Lack of the feeding quality of milch animals
9	Depletion in ground water
10	Decline in soil fertility
11	Malnutrition among rural population viz children, women and adults
12	Wastage in agricultural produce
13	Scientific Food grain Storage

3. TECHNICAL PROGRAMME

A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
08	40	66.05	185

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
100	2000	1000	10000

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples	Development of Soil Health Cards (Nos.)
(5)	(6)	(7)	(8)	(9)
200	5000		100	400

Quality seed distributed (q)	No. of saplings distributed (Nos.)	No. of fingerlings distributed (Nos.)	No. of livestock & poultry strains distributed (Nos.)
(10)	(11)	(12)	(13)

### 3. B. Abstract of interventions to be undertaken

#### 3.1 Technologies to be assessed and refined

##### A.1 Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	TOTAL
Improved Varieties	1				2		1
Integrated Nutrient Management							1
Integrated Pest Management	2			1			3
Integrated Weed Management	2						2
Nutritional garden							1
<b>Total</b>	<b>5</b>			<b>1</b>	<b>2</b>		<b>8</b>

##### A.2. Abstract on the number of technologies to be refined in respect of crops : NIL

##### A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Backyard Poultry	2							2

##### A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises : NIL

### B. Details of On Farm Trial (Based on soil test analysis)

#### OFT 1 :-

- 1) Crop/Enterprise - Wheat
- 2) Title of on-farm trial - Evaluation of high yielding variety of Wheat (Late sown).
- 3) Problem diagnosed - Low productivity of Wheat due to unavailability of suitable varieties.
- 4) Farming situation - Irrigated
- 5) Production system and thematic area - Rice Wheat Production System High yielding variety
- 6) Farmers' Practices - PBW-373
- 7) Details of technologies selected for assessment/refinement -
  - i. HD-3059
  - ii. WH-1021
- 8) Source of technology SVPDAT, Meerut
- 9) No. of farmers - 05
- 10) Critical input -

i Seed –PBW-373	-1.0 qt	3500.00
i Seed –HD-3059	- 1.0 qt	3500.00
- 11) Performance indicators

1. Technical
  - a. No. of Plants / sq m
  - b. Grain yield q/ha.
  - c. Straw Yield
  - d. Physiological Parameter
- i Economic
  - a. Cost of input (Treatment wise)/ha
  - b. Additional return/ha.
  - c. C:B Ratio
- ii Social -
  - a. Acceptability of variety

### OFT 2 :-

- 1) Crop/Enterprise - Sorghum
- 1) Title of on-farm trial - Evaluation of sorghum varieties.
- 2) Problem diagnosed - Low yield of of sorghumas an very good millet crop
- 3) Farming situation - Irrigated
- 4) Production system and thematic area - Sorghum -Wheat Production System  
Integrated crop management in sorghum.
- 5) Farmers' Practices - Local variety.
- 6) Details of technologies selected for assessment/refinement -
  - i. Sorghum hybrid variety.
- 7) Source of technology - SVPUAT Meerut / IARI New Delhi
- 8) No. of farmers - 05
- 9) Critical input - i Sorghum hybrid variety - 20 kg 3000.00
- 10) Performance indicators-
  1. Technical
    - a. No. of Plants / sqm
    - b. No. of Tillers / plants
    - c. Grain yield q / ha.
    - d. Test weight
  - 2 Economic
    - a. Cost of input (Treatment wise)/ha
    - b. Additional return/ha.
    - c. C:B Ratio
  - 3 Social

### OFT 3 :-

- 1) Crop/Enterprise - Paddy
- 1) Title of on-farm trial - Control of Stem Borer in paddy
- 2) Problem diagnosed - Heavy infestation of Stem Borer causing 15 to 40 % crop loss
- 3) Farming situation - Irrigated
- 4) Production system and thematic area - Paddy - Wheat Production System , IPM
- 5) Farmers' Practices - Use of old chemicals (Use of Cartap hydrochloride 4G @ 25 kg/ha)

- 6) Details of technologies selected for assessment/refinement
  - i. Fipronil 5SC @ 1.0 l/ha
  - ii. Spinetoram 11.7SC @ 500ml/ha
- 7) Source of technology - SVPUA &T Meerut
- 8) No. of farmers - 05
- 9) Critical input -
  - i Fipronil 5 SC @ 1.0 l/ha 2000.00
  - ii Spinetoram 11.7 SC @ 500 ml/ha
- 10) Performance indicators-
  - i. Technical
    - a. Percentage of dead of hearts
    - b. Percentage of white ears
    - c. Grain yield q / ha.
  - ii Economic
    - a. Cost of input (Treatment wise) / ha
    - b. Additional return / ha.
    - c. C:B Ratio
  - ii Social

#### OFT 4 :-

- 1) Crop/Enterprise - Paddy
  - 1) Title of on-farm trial - Control of Brown Plant Hopper in paddy
  - 2) Problem diagnosed - Heavy infestation of Brown Plant Hopper causing 20 to 45 % crop loss
  - 3) Farming situation - Irrigated
  - 4) Production system and thematic area - Paddy - Wheat Production System , IPM
  - 5) Farmers' Practices - No use of improved chemicals (Use of Buprofezin 25 SC @ 1 lit/ha)
  - 6) Details of technologies selected for assessment/refinement
    - i. Pymetrozine 50 WG @ 0.3 Kg/ha
    - ii. Triflumezopyrim 10SC @ 250 ml/ha
  - 7) Source of technology - SVPUA &T Meerut
  - 8) No. of farmers - 05
  - 9) Critical input -
    - i Pymetrozine 50 WG @ 0.3 Kg/ha 1500.00
    - ii Triflumezopyrim 10SC @ 250 ml/ha 5000.00
  - 10) Performance indicators-
    - iii. Technical
      - a. No. of BPH per plant
      - b. Percentage of affected Plants
      - c. Grain yield q / ha.
    - i Economic
      - a. Cost of input (Treatment wise) / ha
      - b. Additional return / ha.
      - c. C:B Ratio
    - ii Social

## OFT 5 :-

Crop/Enterprise - Sugarcane

- 1) Title of on-farm trial - Control of white grub in Sugarcane
- 2) Problem diagnosed - Heavy infestation of white grub in sugarcane causing 15 to 40 % crop loss
- 3) Farming situation - Irrigated
- 4) Production system and thematic area - Paddy - Wheat Production System , IPM
- 5) Farmers' Practices - No Use of new chemicals (Use of Chlorpyriphos 50 EC)
- 6) Details of technologies selected for assessment/refinement
  - i. Chlorpyriphos 50 EC @ 2.5.0 l/ha.
  - ii. Imidacloprid 40 + Fipronil 40 @ 0.500l/ha
- 7) Source of technology - SVPUA &T Meerut
- 8) No. of farmers - 05
- 9) Critical input -

i Chlorpyriphos 50 EC @ 2.5.0 l/ha	2500.00
iii Imidacloprid 40 + Fipronil 40 @ 0.500l/ha	10000.00
- 10) Performance indicators-
  - i Technical
    - a. Percentage of dead plants
    - b. Percentage of damaged canes
    - c. Cane yield q / ha.
  - ii Economic
    - a. Cost of input (Treatment wise) / ha
    - b. Additional return / ha.
    - c. C:B Ratio
  - iii Social

## OFT 6 :-

1) Crop/Enterprise - Sugarcane

- 1) Title of on-farm trial - Control of early shoot Borer in Sugarcane
- 2) Problem diagnosed - Heavy infestation of early shoot Borer causing 15 to 40 % crop loss
- 3) Farming situation - Irrigated
- 4) Production system and thematic area - Paddy - Wheat Production System , IPM
- 5) Farmers' Practices - No Use of new chemicals (Use of Fipronil 0.3 GR)
- 6) Details of technologies selected for assessment/refinement
  - iii. Fipronil 0.3GR @ 25 kg/ha
  - iv. Chlorantraniliprole+ Thiamethoxam @ 10 kg/ha
- 7) Source of technology - SVPUA &T Meerut
- 8) No. of farmers - 05
- 9) Critical input -

i Fipronil 5 SC @ 1.0 l/ha	2500.00
iii Chlorantraniliprole + Thiamethoxam @ 10 kg/ha	10000.00

- 10) Performance indicators-
- i Technical
    - a. Percentage of dead of hearts
    - b. Percentage of damaged canes
    - c. Grain yield q / ha.
  - ii Economic
    - a. Cost of input (Treatment wise) / ha
    - b. Additional return / ha.
    - c. C:B Ratio
  - iii Social

#### OFT 7

<b>Crop/ Enterprises</b>	Tomato
<b>Title of OFT</b>	Assessment of Tomato varieties (determinate)
<b>Problem diagnosed</b>	Poor quality and yield of fruit.
<b>Farming Situation</b>	Irrigated
<b>Production System and thematic area</b>	Kharif vegetable – Mustard/Wheat/Rabi vegetable Varietal assessment
<b>Farmers Practice</b>	Local variety
<b>Details of technology selected for assessment/ refinement</b>	T1: Farmers Practice T2: Pusa Hybrid- 8
<b>Source of technology</b>	ICAR- IARI, New Delhi
<b>No. of Farmers</b>	05 (Total area= 0.75 ha)
<b>Critical Inputs</b>	Seed
<b>Performance indicator</b>	
<b>a) Technical</b>	1. Days to first flower 2. Days to first picking 3. No. of fruits per plant 4. Average fruit weight (g) (avg. of 10 fruits) 5. Fruit weight per plant (kg) 6. Fruit yield (q/ha) 7. Self life of the fruits (days)
<b>b) Economic</b>	Cost of cultivation, gross return, net return & B:C ratio
<b>c) Social</b>	Adoptability of technology and compatibility in existing farming systems.

#### OFT 8

<b>Crop/ Enterprises</b>	Vegetable Pea
<b>Title of OFT</b>	Assessment of Vegetable Pea varieties
<b>Problem diagnosed</b>	Low income per unit areas
<b>Farming Situation</b>	Irrigated
<b>Production System and thematic area</b>	Rice – vegetable pea – Wheat Varietal assessment

<b>Farmers Practice</b>	Rice- wheat
<b>Details of technology selected for assessment/refinement</b>	T1: Farmers Practice Arkel T2: Kashi Udai
<b>Source of technology</b>	ICAR- IIVR, Varanasi
<b>No. of Farmers</b>	05 (0.4 ha)
<b>Critical Inputs</b>	Seed
<b>Performance indicator</b>	
<b>a) Technical</b>	1. Yield (q/ha) 2. Duration (Days) 3. Disease infestation %
<b>b) Economic</b>	Cost of cultivation, gross return, net return & B:C ratio
<b>c) Social</b>	Adoptability of technology and compatibility in existing farming systems.

### OFT 9

- 1) Crop/Enterprise – Buffalo
  - 2) Title – Evaluation of different feed supplement to check the infertility in milch animals
  - 3) Problem diagnosed – Infertility
  - 4) Farming situation – Crop production and animal husbandry
  - 5) Thematic area – Dairy Management
- Details of technologies selected for assessment/refinement
- 6) T<sub>1</sub> – Farmer's practice (Common salt)
  - 7) T<sub>2</sub> – Dewormer + Mineral Mixture
  - 8) No. of famers/Animals – 05
  - 9) Duration – 120 days
  - 10) Critical Input – Dewormer, Mineral mixture, Fertilizer.
  - 11) Observations to be recorded
    - Annual Calving
    - Cost: Benefits Ratio
    - Milk Production
  - 12) Total cost of OFT – Rs 6000/-



### 3.2 Frontline Demonstrations

#### A. Details of FLDs to be organized (Based on soil test analysis)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demon.	Parameters identified
1	Mustard	Pant Shweta	Varietal Evaluation	YSH-401	Seed, NPK, Sulphur	Rabi 2022-23	5.0	10	Yield/Profit No of branches / plant
2	Lentil	PL-9	Varietal Evaluation	PL-9	Seed, NPK, Sulphur	Rabi 2022-23	5.0	10	Yield/Profit No of pod / plant.
3	Wheat	HD-3086	Weed Control	Improved weedicide	Clodinafop Propargyl	Rabi 2022-23	8.0	20	Yield/Profit No of <i>P.minor</i> / sq.m.
4	Wheat	HD-2967	Integrated disease management	Improved Fungicide for seed Treatment & Spraying	Propiconazole	Rabi 2022-23	8.0	20	Yield/Profit/% infestation of disease
5	Wheat	HD-3086	Weed Control	Improved weedicide	Metsulfuron methyl	Rabi 2022-23	8.0	20	Yield/Profit No of BLW / sq.m.
6	Wheat	HD-3086	Weed Control	Improved weedicide	Carfentrazone	Rabi 2022-23	8.0	20	Yield/Profit No of BLW / sq.m.
6	Wheat	HD- 2967	IPM	Control of aphids by thiamethoxam	thiamethoxam	Rabi 2022-23	8.0	20	Yield/Profit
7	Paddy	PR-121	Integrated Weed Management	Pretilachlor	Pretilachlor	Kharif 2022	8.0	20	Yield/Profit, No. of weeds per sq. m.
8	Paddy	PR-121	Integrated Weed Management	Bispyruvic sodium	Bispyruvic sodium	Kharif 2022	4.0	10	Yield/Profit, No. of weeds per sq. m.
9	Sugar Cane	Co.-0238	IPM	Control of early shoot borer by chlorantraniliprole	Chlorantranilip role 18.5 SC	Zaid 2022	4.0	10	Yield/Profit No. of insect infested plants per sq. m.
10	Paddy	PR-121	IPM	Control of stem borer in paddy	Chlorantranilip role 18.5 SC	Kharif 2022	8.0	20	Yield/Profit No. of plants / sq. m.
11	Brinjal	Pusa Hybrid-6	Varietal	Impact of improved variety (Pusa Hybrid-6)	Seed	Rabi 2022-23	2.0	10	Yield B:C Ratio Yield increase (%)
12	Radish	Pusa Chetki	Varietal	Improved variety	Seed	Rabi 2022-23	3.0	10	Yield B:C Ratio Yield increase (%)
13	Veg. Pea	Azad P-3	Weed management	Pre-emergence application of pendimethalin supplemented with one hand weeding	Pendimethalin	Rabi 2022-23	2.0	10	Yield B:C Ratio Yield increase (%) Weed Spectrum
11	Nutrition garden	Seasonal vegetables & fruit saplings	Household food security by nutrition garden	Production potential technology	Seed & fruit sapling	Rabi 2022-23	0.05	05	Yield/Profit
12	Fruits & Vegetables Tomato	Seasonal vegetables & fruit saplings Local	Value addition to fruits & vegetables	Use of recommended practices and preservatives Tomato chutney	Acetic acid, KMS Sodium Benzoate, Seasonal fruits, vegetables, spices, oil, salt	Rabi 2022-23		05	Profit
13	Cereals and pulses	Millet, wheat, moong, gram	Value addition of cereals and pulses.	Sprouting, malting and mixing of cereals and pulses	Wheat, gram, peanuts, bajra, jowar, maize, moong etc.	Kharif 2022		05	Profit, enhancement of nutritive value
<b>Total</b>							<b>60.05</b>	<b>185</b>	

#### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	16	Apr-Dec	767
2	Farmers Training	20	Apr-Dec	400
3	Media coverage	45	Apr-Dec	
4	Training for extension functionaries	15	Apr-Dec	300

**C. Details of FLD on Enterprises**

**(i) Farm Implements**

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / Indicators

**(ii) Livestock Enterprises**

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / Indicators
Dairy	Milch animals	10	20	Urea, straw, Hazara	1.Milk yield 2.Shelf life 3.Health reaction 4.B:C ratio
Imbalanced feeding in milch cattle/ buffalo.	Milch cattle/ Buffalo	10	20	Mineral mixture	1. Milk production 2. Proper heat period. 3. Adoptability. 4. Economics (B:C ratio)
Barseem (Maximum fodder production )	Fodder production	10	1.0 ha	Barseem- BL 10/Miscavi	1.Production performance 2. Yield 3. No of cutting
Oat (Maximum fodder production )	Fodder production	10	1.0 ha	Oat (Kant)	1.Production performance 2. Yield 3. No of cutting

**3.9 Training (Including the sponsored and FLD training programmes):**

**a. ON Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	1	16	1	17	2	1	3	20
Crop Diversification	1	13	1	14	5	1	6	20
Integrated Crop Management	2	28	2	30	10	-	10	40
<b>II Horticulture</b>								
<b>III Soil Health and Fertility Management</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	1	17	0	17	3	0	3	20
Protected cultivation	1	18	0	18	2	0	2	20
<b>IV Livestock Production and Management</b>								
<b>V Home Science/Women empowerment</b>								
Design and development for high nutrient efficiency diet	01	-	17	17		3	3	20
Value addition	01	-	18	18		2	2	20
Income generation activities for empowerment of rural women	01	-	19	19		1	1	20
House hold food security through nutrition garden	01	-	18	18		2	2	20
<b>VI Agril. Engineering</b>								
<b>VII Plant Protection</b>								
Integrated Pest Management	2	28	1	29	10	1	11	40
Integrated Disease Management	3	42	3	45	15	--	15	60
Bio-control of pests and diseases	1	17	1	18	2	-	2	20
<b>VIII Fisheries</b>								
<b>IX Production of Inputs at site</b>								

Seed Production	1	17	2	19	1	-	1	20
Vermi-compost production	1	16	2	18	2	--	2	20
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	1	13	1	14	5	1	6	20
Group dynamics	1	13	2	15	5	-	5	20
Formation and Management of SHGs	1	14	2	16	2	2	4	20
Mobilization of social capital	1	1	19	19	1	-		20
Entrepreneurial development of farmers/ youths	1	13	5	18	2		2	20
WTO and IPR issues	1	11	1	12	7	1	8	20
<b>XI Agro-forestry</b>								
Production technologies	3	44	4	48	10	2	12	60
Nursery management	1	13	1	14	5	1	6	20
Integrated Farming System	1	13	2	15	5	--	5	20
<b>TOTAL</b>	<b>27</b>	<b>353</b>	<b>67</b>	<b>420</b>	<b>106</b>	<b>14</b>	<b>120</b>	<b>540</b>
<b>(B) RURAL YOUTH</b>								
Seed Production of Cereal	2	14	--	14	06	--	06	20
Bio fertilizer	1	7	--	7	3	--	3	10
Agro forestry	1	10	--	10	--	--	--	10
Home Science	2	--	17	17	--	3	3	20
Vermi compost	1	10	--	10	--	--	--	10
Nursery Management of Horticulture crops	2	15	0	15	5	0	5	20
Protected cultivation	1	7	0	7	3	0	3	10
<b>Total</b>	<b>08</b>	<b>41</b>	<b>25</b>	<b>65</b>	<b>09</b>	<b>5</b>	<b>15</b>	<b>80</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	2	39	--	39	1	--	1	40
Integrated Pest Management	2	34	--	34	6	--	6	40
Integrated Nutrient management	1	15	--	15	5	--	5	20
Protected cultivation technology	1	13	--	13	7	--	7	20
Group Dynamics and farmers organization	2	30	--	30	10	--	10	40
Use of A.V.Aids in transport technology	1	12	--	12	8		8	20
Food grain Storage	1	15	--	15	5	--	5	20
Production and use of organic inputs	1	15	--	15	5	--	5	20
Low cost & nutrient efficient diet designing	2	--	36	36	--	-	4	40
Value addition	1	--	15	15	5	--	5	20
Integrated Disease Management	2	30	--	30	10	--	10	40
Water Conservation	1	15	--	15	5	--	5	20
Seed Treatment	2	28	--	28	12	--	12	40
Bio Pesticides	1	15	--	15	5	--	5	20
Bio Fertilizers	1	17	--	17	3	--	3	20
Fertilizer Management	1	16	--	16	4	--	4	20
Organic Farming	1	16	--	16	4	--	4	20
Recycling of organic Waste	1	14	--	14	6	--	6	20
Inter cropping	1	15	--	15	5	--	5	20
Vermi compost	1	17	--	17	3	--	3	20
Chemical solutions Preparation	1	19	--	19	1	--	1	20
Productivity & enhancement in forestry	2	35	--	35	5	--	5	40
Training & Pruning	1	15	--	15	5	--	5	20
Women & child care	2	--	36	36	--	4	4	40

Low and high volume of vegetable crop	1	8	0	8	2	0	2	10
Management of orchard	1	8	0	8	2	0	2	10
Nursery management in horticulture crop	1	9	0	9	1	0	1	10
<b>Total</b>	<b>34</b>	<b>458</b>	<b>87</b>	<b>545</b>	<b>127</b>	<b>8</b>	<b>135</b>	<b>680</b>
<b>G.T.</b>	<b>69</b>	<b>901</b>	<b>259</b>	<b>1160</b>	<b>143</b>	<b>37</b>	<b>180</b>	<b>1300</b>

**A) OFF Campus**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	2	32	3	35	4	1	5	40
Organic Farming	1	13	1	14	5	1	6	20
Cropping Systems	1	13	1	14	5	1	6	20
Production & use of organic Inputs	1	9	6	15	3	2	5	20
Inter Cropping	1	26	3	29	9	2	11	40
Production Enhancement in field crops	4	56	5	61	16	3	19	80
Seed production/Treatment	1	13	1	14	5	1	6	20
Recycling of organic West	1	11	2	13	4	3	7	20
Integrated Crop Management	1	14	1	15	5	--	5	20
Planning & budgeting of Farming	1	13	1	14	5	1	6	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	5	82	0	82	18	0	18	100
Micro irrigation	1	18	0	18	2	0	0	20
<b>b) Fruits</b>								
Layout and Management of Orchards	1	18	0	18	2	0	2	20
Management of young plants/orchards	2	33	0	33	7	0	7	40
Micro irrigation	1	18	0	18	2	0	0	20
<b>d) Plantation crops</b>								
Production and Management technology	1	18	0	18	2	0	2	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	1	16	4	20	-	-	-	20
Green Manuring	1	12	2	14	5	1	6	20
Integrated Nutrient Management	3	40	5	45	13	2	15	60
<b>IV Livestock Production and Management</b>								
<b>V Home Science/Women empowerment</b>								
Design and development of low /medium cost diet	1	-	18	18	-	2	2	20
Design and development for high nutrient efficiency diet	1	-	20	20	-	-	-	20
Value addition	3	-	50	50	-	10	10	60
Income generation activities for empowerment of rural women	2	-	31	31	-	9	9	40
House hold food security through nutrition garden	2	-	36	36	-	4	4	40
Storage loss minimization techniques	2	-	20	20	-	-	-	40
Women and child care	2	-	33	20	-	7	7	40
<b>VI Agril. Engineering</b>								
<b>VII Plant Protection</b>								
Integrated Pest Management	5	82	3	85	12	3	15	100
Integrated Disease Management	3	49	2	51	8	1	9	60

Bio-control of pests and diseases	2	28	2	30	9	1	10	40
Seed Treatment	2	34	1	35	5	-	5	40
Preparation of chemical solutions	1	17	-	17	3	-	3	20
Integrated Pest management in vegetables	2	32	3	35	4	1	5	40
<b>VIII Fisheries</b>								
<b>IX Production of Inputs at site</b>								
Vermi-compost production	2	26	4	30	8	2	10	40
Organic manures production	1	13	1	14	5	1	6	20
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	1	12	2	14	5	1	6	20
Group dynamics	1	11	3	14	4	2	6	20
Formation and Management of SHGs	1	15	3	18	2	-	2	20
Mobilization of social capital	1	12	3	15	4	1	5	20
Entrepreneurial development of farmers/youths	1	14	2	16	3	1	4	20
WTO and IPR issues	1	12	3	15	4	1	5	20
<b>XI Agro-forestry</b>								
Production technologies	3	36	9	45	12	3	15	60
Intercropping	2	33	1	34	5	1	6	40
Identification of Clones	2	32	3	35	4	1	5	20
Training & Pruning	3	54	4	58	2	-	2	60
Fertilizers Management	2	33	2	35	4	1	5	40
Integrated Farming Systems	2	32	2	34	5	1	6	40
<b>TOTAL</b>	<b>70</b>	<b>845</b>	<b>296</b>	<b>1141</b>	<b>187</b>	<b>72</b>	<b>259</b>	<b>1400</b>

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	2	38	1	39	1	-	1	40
Organic farming	1	13	1	14	5	1	6	20
Cropping Systems	1	13	1	14	5	1	6	20
Crop Diversification	1	13	1	14	5	1	6	20
Seed production	1	13	1	14	5	1	6	20
Integrated Crop Management	4	56	4	60	20	--	20	80
Production of organic inputs	1	9	6	15	3	2	5	20
Inter Cropping	2	32	6	38	2	-	2	40
Production Enhancement in field crops	4	66	5	71	7	2	9	80
Recycling of organic waste	1	11	2	13	4	3	7	20
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops	6	99	0	99	21	0	21	120
Protected cultivation	1	18	0	18	2	0	2	20
Micro irrigation	1	18	0	18	2	0	2	20
<b>b) Fruits</b>								
Layout and Management of Orchards	1	18	0	18	2	0	2	20
Management of young plants/orchards	2	33	0	33	7	0	7	40
Micro irrigation	1	18	0	18	2	0	2	20

<b>c) Plantation crops</b>	0	0	0	0	0	0	0	0
Production and Management technology	1	18	0	18	2	0	2	20
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	1	12	2	14	5	1	6	20
Integrated Nutrient Management	2	36	1	37	2	1	3	40
Bio Fertilizer for enhancement of soil fertility	1	12	3	15	4	1	5	20
Production and use of organic inputs	1	12	3	15	4	1	5	20
Green Manuring	1	11	3	14	4	2	6	20
Micro nutrient deficiency in crops	1	19	-	19	1	-	1	20
<b>IV Livestock Production and Management</b>								
Fodder production	2	33	3	36	3	1	4	40
AI for breed improvement	1	10	4	14	4	2	6	20
<b>V Home Science/Women empowerment</b>								
Design and development of low /medium cost diet	1		20	20				20
Design and development for high nutrient efficiency diet	2		40	40				40
Value addition	3		55	55		5	5	60
Income generation activities for empowerment of rural women	3		60	60				60
House hold food security through nutrition garden	3		60	60				60
Storage loss minimization techniques	2		40	40				40
Women and childcare	3		60	60				60
<b>VI Agril. Engineering</b>								
<b>VII Plant Protection</b>								
Integrated Pest Management	7	120	11	131	7	2	9	140
Integrated Disease Management	5	83	8	91	6	3	9	100
Bio-control of pests and diseases	2	28	2	30	9	1	10	40
Seed Treatment	3	41	4	45	13	2	15	60
Preparation of Chemical Solutions	3	52	4	56	3	1	4	60
<b>VIII Fisheries</b>								
<b>IX Production of Inputs at site</b>								
Vermi Compost	3	39	5	44	13	3	16	60
Small tools & implements	3	38	6	44	13	3	16	60
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	3	37	8	45	12	3	15	60
Group dynamics	2	23	5	28	9	3	12	40
Formation and Management of SHGs	2	26	4	30	8	2	10	40
Mobilization of social capital	2	33	4	37	2	1	3	40
Entrepreneurial development of farmers/youths	2	36	1	37	3	-	3	40
WTO and IPR issues	1	18	-	18	2	-	2	20
<b>XI Agro-forestry</b>								
Production technologies	5	61	13	74	21	5	26	100
Nursery management	3	53	1	54	5	1	6	60
Training & pruning	2	24	6	30	8	2	10	40
Fertilizer Management	3	53	2	55	4	1	5	60
Integrated Farming Systems	2	26	4	30	8	2	10	40
Intercropping	2	34	1	35	4	1	5	40
Identification of Clones	2	32	3	35	4	1	5	40
<b>TOTAL</b>	<b>101</b>	<b>1266</b>	<b>474</b>	<b>1740</b>	<b>238</b>	<b>62</b>	<b>300</b>	<b>2020</b>
<b>(B) RURAL YOUTH</b>								
Seed Production of Cereal	1	10	--	10	--	--	--	10
Seed Production of vegetable crops	1	10	--	10	--	--	--	10

Bio fertilizer	1	7	--	7	3	--	3	10
Rural craft	1	--	8	8	--	2	2	10
Agro forestry	1	10	--	10	--	--	--	10
Home Science	2	--	17	17	--	3	3	20
Vermi compost	1	10	--	10	--	--	--	10
<b>Total</b>	<b>8</b>	<b>47</b>	<b>25</b>	<b>72</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>80</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	2	39	--	39	1	--	1	40
Integrated Pest Management	2	34	--	34	6	--	6	40
Integrated Nutrient management	1	15	--	15	5	--	5	20
Protected cultivation technology	1	13	--	13	7	--	7	20
Group Dynamics and farmers organization	2	30	--	30	10	--	10	40
Use of A.V.Aids in transport technology	1	12	--	12	8	--	8	20
Food grain Storage	1	15	--	15	5	--	5	20
Production and use of organic inputs	1	15	--	15	5	--	5	20
Low cost & nutrient efficient diet designing	2	--	36	36	--	-	4	40
Establishment of orchards	1	15	--	15	5	--	5	20
Value addition	1	--	15	15	5	--	5	20
Integrated Disease Management	2	30	--	30	10	--	10	40
Water Conservation	1	15	--	15	5	--	5	20
Seed Treatment	2	28	--	28	12	--	12	40
Bio Pesticides	1	15	--	15	5	--	5	20
Bio Fertilizers	1	17	--	17	3	--	3	20
Fertilizer Management	1	16	--	16	4	--	4	20
Micro nutrient management	2	34	--	34	6	--	6	40
Organic Farming	1	16	--	16	4	--	4	20
Recycling of organic Waste	1	14	--	14	6	--	6	20
Inter cropping	1	15	--	15	5	--	5	20
Vermi compost	1	17	--	17	3	--	3	20
Chemical solutions Preparation	1	19	--	19	1	--	1	20
Productivity & enhancement in forestry	2	35	--	35	5	--	5	40
Training & Pruning	1	15	--	15	5	--	5	20
Nursery Management	1	18	--	18	2	--	2	20
Women & child care	2	--	36	36	--	4	4	40
<b>Total</b>	<b>34</b>	<b>530</b>	<b>40</b>	<b>570</b>	<b>90</b>	<b>20</b>	<b>110</b>	<b>680</b>
<b>Grand total</b>	<b>143</b>	<b>2280</b>	<b>200</b>	<b>2480</b>	<b>230</b>	<b>70</b>	<b>300</b>	<b>2780</b>

Details of training programmes attached in **Annexure -I**

### 3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total (Est.)		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	22									1340
Kisan Mela	8									2000
Kisan Ghosthi	55									3000
Exhibition	2									100
Group meetings	24									250
Lectures delivered as resource persons	150									8000
Newspaper coverage	120									
Radio talks	11									
TV talks	5									

Popular articles	24									
Extension Literature	5									5000
<b>Advisory Services</b>										
Scientific visit to farmers field	412									600
Farmers visit to KVK	320									320
Diagnostic visits	24									200
Exposure visits	12									150
Ex-trainees Sammelan	1									20
Soil health Camp	5									200
Animal Health Camp	1									50
Agri mobile clinic										
Soil test campaigns	8									200
Farm Science Club	2									50
Conveners meet										
Self Help Group	2									40
Conveners meetings										
Mahila Mandals	4									100
Conveners meetings										
Celebration of important days (specify)	5									500
Krishi Mohostva	2									200
Pre Kharif workshop	1									100
Pre Rabi workshop	1									100
PPVFRA workshop										
Any Other (Specify)										
<b>Total</b>	<b>1223</b>									<b>22220</b>

### 3.5 Target for Production and supply of Technological products SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>CEREALS</b>	Paddy	PR-113	200
	Wheat	DBW-187	200
			<b>400</b>

### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>			
<b>SPICES</b>			
<b>VEGETABLES</b>	Seasonal		18000
<b>FOREST SPECIES</b>	Poplar	New Clones	4000
<b>ORNAMENTAL CROPS</b>			
		<b>Total</b>	<b>22000</b>

**Bio-products: nil**

**LIVESTOCK: nil**



**6.9. Literature to be Developed/Published : 50**

**(K) KVK News Letter**

Date of start : April 2023  
Number of copies to be published : 100

**(B) Literature to be developed/published**

S.No.	Topic	Number
1	Research paper each scientist	12
2	Technical reports	6
3	News letters	2
4	Training manual all discipline	12
5	Popular article	12
6	Extension literature	6
<b>Total</b>		<b>50</b>

**(C) Details of Electronic Media to be Produced**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			

**3.7. Success stories/Case studies identified for development as a case. -**

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for**

**Practicing Farmers** - According to the need of farmers known through their visit to the centre, questions asked by them during the kisan melas & goshties organized by various agencies throughout the year.

- a) power point presentations
- b) Flexi charts
- c) banners

**Rural Youth** - The potential of district is seen by self-watch and by the questions asked by youths at various places. Also the potential of market is watched that what suitable techniques will be useful for self-employment.

- a) Presentations
- b) Flexies

**In-service personnel** - The problems and issues raised by farmers before extension functionaries are asked by them through various interactions with them. Then the knowledge status of these personnel is found out to fill the gap of their knowledge so that they can deal with farmer in the better manner.

- a) Presentations
- b) Flexies

**3.9 Indicate the methodology for identifying OFTs/FLDs** - The PRA survey is conducted once in the villages of every AES of the district to know about the major issues and problem of the area. Then the main problems are ranked by using the matrix ranking system to know the possible strategy to be made for each problem. The problem cause diagram is also made to come across all the possible solution of any particular problem of any major crop or enterprise. The group discussion of farmers at various level is also conducted at various level to get acquainted with their views. Time to time discussions with extension personnel are also done to know about all the problems being faced and raised by the farmers and then a overall plan for various FLDs and OFts to be done is Made.

**For OFT :**

- i) PRA
- ii) Problem identified from Matrix

- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

**For FLD :**

- li) New variety/technology
- lii) Poor yield at farmers level
- liii) Existing cropping system
- liv) Others if any

**3.10 Field activities**

- i. Name of villages identified/adopted with block name (from which year) - 05 (Marauri, lalauri, Barkhera)
- ii. No. of farm families selected per village : 20
- iii. No. of survey/PRA conducted : 02
- iv. No. of technologies taken to the adopted villages 07
- v. Name of the technologies found suitable by the farmers of the adopted villages: 05
- vi. Impact (production, income, employment, area/technological– horizontal/vertical) 67
- vii. Constraints if any in the continued application of these improved technologies

**3.11. Activities of Soil and Water Testing Laboratory**

Status of establishment of Lab:Not installed yet

- 1. **Year of establishment : 2007**
- 2. **List of equipments purchase with amount: nil**
- 3. **Targets of samples for analysis: nil**

**4.0 LINKAGES**

**4.1 Functional linkage with different organizations**

Sl.No.	Name of organization	Nature of Linkage
1.	Agri. Deptt., U.P. Govt.	Participation in meetings, Training Programmes, Fair, Preparation of distt report, Kisan Kalyan Abhiyan, Million farmers school, Kisan Pathshala
2.	TATA Chemicals	Training Programmes
3.	Horticulture Deptt.	Training, Fair, Gosthi, Meetings
4.	Cane Deptt.	Training, Fair, Gosthi, Meetings
5.	Fisheries Deptt.	Training, Fair, Gosthi, Meetings
6.	U. P. Agro	Training, Fair, Gosthi, Meetings
7.	Rural Development Deptt.	Training, Fair, Gosthi, Meetings
8.	Akashwani, Rampur	Radio Talk (Mass Communication)
9.	D.D., Bareilly, D.D. Kisan	T.V. Talks Relay
10.	Local News Paper	Mass Communication
11.	IFFCO	Training, Gosthi, Meetings, Field days
12.	KRIBHCO	Training, Gosthi, Meetings, Field days
13.	National Fertilizers Limited	Training, Gosthi, Meetings, Field days
14.	Animal Husbandry	Training, Gosthi, Meetings
15.	UP Seed Development Corporation	Training, Gosthi, Meetings
	ATMA	Kisan Mela, Farmers Gosthi, Farmers School, Farmers Scientist Interaction
16.	NABARD	Farmer clubs, FPOs
17.	Lead Bank	Training, Gosthi, Meetings
18.	NGOs	Training, Gosthi, Meetings

**4.2 Details of linkage with ATMA**

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage
1	Kisan Mela	Delivering lectures as resource person
2	Farmers Goshthi	Delivering lectures as resource person
3	Farmers School	Delivering lectures as resource person
4	Farmers Scientist Interaction	Delivering lectures as resource person

**4.3 Give details of programmes under National Horticultural Mission. N.A.**

**4.4 Nature of linkage with National Fisheries Development Board: N.A.**

**5.0 Utilization of hostel facilities: nil**

**6.0 Convergence with departments : nil**

**7.0 Feedback of the farmers about the technologies demonstrated and assessed :**

**8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :**

## Training Programmes

## i) Farmers &amp; Farm women (On Campus)

Subject	Title of Training Programme	Date	Duration Days	No. of Participants	
				Male	Female
<b>Ist Quarter – January to March 2023</b>					
Crop Production	Intercropping in spring sugarcane Production technology of Moong.	Feb.04-05	2	18	2
		Mar.08-09	2	18	2
Plant protection	Disease Management in wheat.	Jan. 18-19	2	20	-
Home Science	House hold food security through nutrition garden	Jan.-21-22	2	--	20
Horticulture	Seed production techniques of Sunflower.	Jan. 19-20	2	18	2
Livestock Production	Disease management in farm animals	Jan. 05-06	2	18	2
<b>IInd Quarter – April to June 2023</b>					
Crop Production.	Scientific techniques of paddy nursery.	May 05-06	2	18	2
Plant protection	Control of insect pests in stored food grains.	Apr:15-16	2	19	1
Home Science	Design and development of low cost and high nutrients efficiency diet with use of millets	May, 15-16	2	-	20
Livestock Production	Importance of Mineral mixture in dairy animal	May 01-02	2	18	2
Horticulture	INM in Cucurbitaceous crop	April 12-13	2	18	2
<b>IIIrdQuarter – July to September 2023</b>					
Crop Production	Scientific cultivation of Toria/ Mustard.	Aug.27-28	2	17	3
Plant protection	Integrated management of leaf folder in Basmati rice .	July 01-02	2	19	1
	Management of stem borer in paddy	Aug.05-06	2	18	2
Home Science	Malnutrition causes, symptoms & remedies and designing balanced diet in limited resources	July 7-8	2	-	20
Horticulture	Production technique of onion crop	Sept., 13-14	3	17	20
Livestock Production	Balance feeding of cattle and buffalo	Aug 22-23	2	16	4
<b>IVth Quarter – October to December 2023</b>					
Crop Production	Integrated weed management in wheat.	Oct. 05-06	2	16	4
Plant protection	Integrated pest management of soil arthropods in Rabi crops	Oct. 08-09	2	19	1
	Control of Smut, Rust & Karnal Bunt in Wheat.	Dec. 11-12	2	18	2
Home Science	Preparation of low cost nutritive recipes with use of millets	Oct. 12-13	2	-	20
Horticulture	Protected cultivation of vegetables crop	Oct. 17-18	2	18	2
Livestock Production	Care and management of calf during winter season	Oct. 06-07	2	17	3

**i) Farmers & Farm women (Off Campus)**

<b>Ist Quarter –January to March 2023</b>					
Crop Production	1. Importance and use of Bio-fertilizers in Moong crop.	Jan. 23	1	18	2
	2. Improved production techniques of sunflower.	Feb. 05	1	16	4
	3. Importance and production technology of Urd and Moong in rice wheat cropping system.	Feb. 26	1	19	1
Plant Protection	1. Control of loose smut in wheat through cultural biological & chemical method.	Jan 20	1	19	1
	2. Control of early shoot borer in sugarcane.	Feb. 10	1	18	2
	3. Control of armyworm & karnal bunt in wheat.	Mar 9	1	19	1
Home Science	1. House hold food security through nutrition garden	Feb 8	1	--	20
	2.Clean milk production and value addition of milk	Jan. 6	1	--	20
	3. Value addition of seasonal fruits and vegetables.	Mar.11	1	--	20
Horticulture	1 Importance & implementation of micro irrigation system in litchi orchard	Jan 3	1	18	2
	2 Production technique of Cucumber	Feb 8	1	17	3
	3. Mgt. of mango orchard.	March 02	1	19	1
Livestock Production	1. Green fodder production throughout the year	Jan. 02	1	18	2
	2. Management of milking animal during summer season	Feb. 03	1	17	3
	3. Increase milk yield in buffaloes by adding feed supplement of calcium, phosphorus and vitamin D	March 13	1	18	2
<b>IInd Quarter – April to June 2023</b>					
Crop Production	1 Green manure crops & its importance in soil health.	Apr. 18	1	15	5
	2. Scientific techniques of paddy nursery	May 5	1	18	2
	3. Management of Cultural operation in sugarcane.	June 8	1	19	1
Plant protection	1. Management of termite in sugarcane.	Apr. 09	1	19	1
	2. Management of early shoot borer in sugarcane.	May 11	1	18	2
	3. Diseases of rice nursery & their management.	June 6	1	19	1
Home Science	1. Design and development of low /medium cost diet utilizing millets	April.23	1	--	20
	2.Nutrition management during different physiological conditions	May 22	1	--	20
	3.value addition of seasonal fruits and vegetables at household level	June.23	1		20
Horticulture	1 Production technique of bottle gourd crop.	June 07	1	18	2
	2. Production technique of bitter gourd crop.	May 10	1	15	5
	3. Production technique of kharif season onion	Jun. 02	1	18	2
Livestock Production	1. Balance ration for milch animals and heifers	Apr. 03	1	16	4
	2. Effect of deworming in farm animals	May 04	1	17	3
	3. Mastitis and udder infection in milch animals : Causes and prevention	June 07	1	18	2

<b>IIIrdQuarter – July to September 2023</b>					
Crop Production	1. Crop production Technique of millets.	Jul 10	1	18	2
	2. Water management in rice.	July 18	1	19	1
	3.Awareness about High yielding varieties of Toria and Mustard for better production	Aug 19	1	18	2
	4 Techniques of natural farming.	Sept 16	1	18	2
Plant Protection	1. Leaf Folder & stem borer control in Paddy	Aug. 01	1	17	3
	2. Control of Bacterial Blight & Blast in rice.	Aug. 13	1	19	1
	3. Management of vector pests in kharif crops	Sep. 14	1	19	1
	4. Control of BPH in paddy.	Sep 25	1	18	2
Home Science	1. Value addition of cereal crops for better nutrition	July.17	1	--	20
	2. House hold food security through nutrition garden	July.27	1	--	20
	3Drudgery reduction & work simplification techniques of farm women during paddy harvesting	Sep.19	1	--	20
Horticulture	1 Management of manures & fertilizers in Litchi & Mango orchard	Jul 04	1	18	2
	2 Production technique of potato crop	Aug 09	1	17	3
	3 Techniques of vegetable pea cultivation	Sep 21	1	18	2
Livestock Production	1. Mastitis diseases in milch animals its causes and control.	July 03	1	16	4
	2. Symptoms, prevention and control of FMD disease	Aug. 29	1	14	6
	3. Feeding management in dairy animal	Sep 19	1	15	5
<b>IVth Quarter – October to December 2023</b>					
Crop Production	1. Scientific Cultivation of Lentil.	Oct. 09	1	16	4
	2. Importance and techniques of trench method of planting in sugarcane.	Oct . 14	1	17	3
	3. Integrated Weed Management in wheat	Nov.25	1	18	2
	4. Importance & use of Organic farming..	Dec. 24	1	18	2
Plant Protection	1.Rat control by Zinc Phosphide	Oct. 19	1	18	2
	2. Technique of seed treatment and its importance in Rabi Crops.	Nov. 7	1	19	1
	3. Management of non-insect pests in rabi pulses	Nov., 16	1	18	2
	4. Control of rusts in wheat.	Dec. 21	1	17	3
Home Science	1. Designing low cost diets utilizing coarse grains and pulses	Oct. 15	1	-	20
	2.Nutrition management during different physiological conditions	Nov. 13	1	-	20
	3. Malnutrition- causes and remedies and nutrition management.	Dec.11	1	-	20
Horticulture	1. Importance & implementation of micro irrigation system in vegetable crops	Oct 10	1	18	2
	2. Production technology of early cucurbits crop.	Nov.8	1	18	2
	3. Layout & Plantation of Guava & mango orchard.	Dec. 05	1	19	1
Livestock Production	1. Infertility management in dairy animal	Oct 11	1	13	7
	2. Care of milch animals and calves in winter season	Nov. 28	1	16	4
	3. Care and feed of newly born calves	Dec. 22	1	15	5

ii) Vocational training programmes for Rural Youth

Subject	Title of Training Programme	Date	Duration Days	No. of Participants	
				M	F
<b>Ist Quarter – January to March 2023</b>					
Home Science	Value addition of different food crops for better nutrition	January 11-17	7	--	10
Livestock Production	Different aspect of Natural Farming	January 16-23	7	10	--
Horticulture	Nursery management of horticulture crops	Feb. 17- 24	7	3	7
<b>IInd Quarter – April to June 2023</b>					
Crop Production	Natural farming.	May 11-17	7	10	---
Horticulture	Protected cultivation of flower & vegetable crops	June12-19	7	10	---
Livestock Production	Technique of vermicomposting in Natural Farming and Organic Farming	May. 15-22	7	10	--
<b>IIIrd Quarter – July to September 2023</b>					
Horticulture	Nursery raising in vegetables crop	Sep. 11-18	7	10	---
Livestock Production	Techniques of Poultry farming	Aug. 14-21	7	17	3
<b>IVth Quarter – October to December 2023</b>					
Crop Production	Seed production technology of wheat.	Oct., 12-18	7	10	---
Home Science	Preparation of house old articles utilizing different craft techniques	Nov., 14-20	7	--	10
Horticulture	Propagation techniques of fruit plants	Dec. 13-20	7	10	--
Livestock Production	Techniques and benefits of Goat rearing	Nov., 13-20	7	10	--

iii) Training programme for extension functionaries

Subject	Title of Training Programme	Date	Duration Days	No. of Participants
<b>Ist Quarter – January to March 2023</b>				
Crop Production	1. IPNM in sugarcane.	Feb 16	1	20
	2. Techniques of Sunflower production in Zaid season.	Mar. 19	1	20
Plant protection	1. IPM Techniques of sugarcane.	Feb. 06	1	20
	2. Management practices for aphid in Rapeseed & Mustard.	Jan 15	1	20
Home Science	1. Food safety for nutritional security among rural masses	Jan, 7	1	20
	2. Low cost and nutrient efficient diet design for efficient management of malnutrition	Mar.15	1	20
Horticulture	1. Nursery raising of cucurbits in poly bag/ Pro tray.	Mar 10	1	20
Livestock Production	1. Lumpy Skin Disease of cattle: Cause and Prevention	Jan. 09	1	20
	2. Common breeding system in farm animals	Feb. 06	1	20

<b>IIrd Quarter – April to June 2023</b>				
Crop Production	1. Importance and techniques of SRI.	Apr 20	1	20
	2. Production technology of Hybrid rice.	May 23	1	20
Plant Protection	1. Identification of common bio agents & their role in management of pests & diseases of crops.	May 25	1	20
	2. Control of insect pests in food grains storage.	Apr 15	1	20
Home Science	1 Malnutrition – causes, symptoms, remedies & Nutrition management.	June 15	1	20
Livestock Production	1. Problem and control of sterility in animals	Apr. 10	1	20
	2. Buffalo rearing is a profitable	May 12	1	20
Horticulture	Production technique of off season vegetables	May 25	1	20
<b>IIIrd Quarter – July to September 2023</b>				
Crop Production	1. Trench method of sugarcane planting.	Aug.29.	1	20
	2. Intercropping in Autumn sugarcane.	Sept.11	1	20
Plant Protection	1. Identification & control of insects pests & diseases of rice crop.	July 06	1	20
	2. Management of stem borer in paddy	Aug 07	20	20
Home Science	1.Child care during early childhood	Aug 07	1	20
	2. Nutrition management for women during different physiological conditions	Sep. 24	1	20
Horticulture	1. Layout & plantation of mango, litchi & guava crops	Sept. 29	1	20
Livestock Production	1. Importance of vaccination in farm animals	July 11	1	20
	2. Feeding management of Goat	Sept. 13	1	20
<b>IVth Quarter – October to December 2023</b>				
Crop Production	1.Scientific cultivation of Barseem	Oct. 08	1	20
	2.Integrated Weed Management in Wheat.	Nov.28	1	20
Plant Protection.	1. Technique of seed treatment and its importance in Rabi Crops.	Oct 23	1	20
	2. Insect & disease management in Rabi Pulses.	Nov. 06	1	20
Home Science	1.Preparation of teaching aids utilizing local material for Aanganwadi centres.	Oct 17	1	20
	2.Development during early childhood	Dec 01	1	20
Horticulture	1. Rejuvenation of mango orchard	Nov 16	1	20
Livestock Production	1. Importance of mineral vitamins in animal feeds	Nov 07	1	20
	2. Use of mineral mixture and its importance for milch animals	Dec 01	1	20

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भाकृअनुप – कृषि प्रौद्योगिकी अनुप्रयोग अनुसंधान संस्थान

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